

GOVERNMENT OF KARNATAKA

EVALUATION OF FUNCTIONING AND EFFECTIVENESS OF INDUSTRY RELATED SERVICES MODULES OF MAJOR GOVERNMENT DEPARTMENTS IN PROMOTING INVESTOR FRIENDLY BUSINESS ENVIRONMENT FOR INDUSTRIES IN KARNATAKA STATE, 2019-20



KARNATAKA EVALUATION AUTHORITY

DEPARTMENT OF PLANNING, PROGRAMME MONITORING AND STATISTICS

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DEPARTMENT NAME: KARNATAKA UDYOG MITRA



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FOREWORD

Karnataka State is emerging as one of the most preferred destination for industrial investors. Several reforms have been introduced to promote investor friendly environment. Yet, to boost the investment process and attract the new investors in competitive markets, it is essential to have a robust automated system wherein businesses can be facilitated with end-to end service delivery. In this context, evaluation of functionality of fifty-seven industry related service modules of seventeen major Line Departments is initiated by Karnataka Udyog Mitra through Karnataka Evaluation Authority (KEA). The objective is to understand the effectiveness of these modules in delivering the services to the investors and identify gaps if any, to make necessary corrections, and reengineering of these services to make them more investor friendly to boost the investment process and improve the competitive strength of the State. The study is taken up by KPMG Advisory Services under the guidance of KEA.

The study is based on both primary and secondary data collected for 57 services from the 17line Departments and discussions with Dept. officers and opinion survey of 120 investors and 10 Focus Group Discussions across the four divisions. Key inferences are drawn from NeSDA assessment and applicant data analysis of all these services. The major findings of the study indicate that some Departments like - Inspector General of Registration & Stamps, Department of Factories Boilers Industrial Safety & Health, and Bangalore Water Supply and Sewerage Board are leading departments with high process efficiency, IT enablement and stakeholder connect. 14 Departments that need focus to promote service delivery are BBMP, BDA, dept. of metrology, Labour dept., KIADB, Registrar of Cooperative Societies etc. Majority of them require IT enablement and better stakeholder connect.

Centralized approval/NOC for the industry through single window system is not seamless, and the delays could be reduced if line departments such as BESCOM, Electrical Inspectorate, KSPCB, Karnataka State Fire Department and BWSSB streamline their processes and expedite approvals, as there is a significant, positive correlation between process efficiency and stakeholder connect,

The major recommendations cover enhancing process and IT efficiency of services, to improve the functioning of existing investor reforms and to improve the functioning of the state single window platform. Approval of Boilers, Certificate for recognition as Boiler / Boiler Component manufacturer. and Change of Property Ownership these are currently end-to-end offline and should be made available online. KUM should provide investors with a unified

access to multiple regulatory authorities by integrating eBiz portal with all concerned line department portals, and provide all these clearances without any physical touchpoints like Andhra Pradesh and UP models, deploy a chatbot or information wizard to ensure that investors get a quick view of all the clearances/NOCs, provide a centralized mechanism to address all grievances, Single window meetings, at the district level, must be conducted regularly, SAKALA mission to perform audit of line departments to assess adherence with SAKALA timelines, KUM/DICs proactively reach out to investors to understand their issues/challenges, state government could consider capping the escalation cost levied by KIADB/KSSIDC at the time of execution of lease cum sales agreement. The Government of Karnataka could also consider cash infusions/incentives and waivers to help the MSME sector to tide over the pandemic. Many of these recommendations flow from Andhra Pradesh moac.

I expect that the findings and recommendations of the study will be useful to the Government-Karnataka Udyog Mitra and Department of Industries and Commerce to improve the efficiency of service delivery and implement the reforms effectively to improve the ranking of the State in Ease of Doing Business and to promote the investor friendly business environment in the State.

The study received support and guidance of the Additional Chief Secretary Planning, Programme Monitoring and Statistics Department, Government of Karnataka. The report was approved in 50th Technical Committee meeting. The review of the draft report by KEA, members of the Technical Committee and an Independent Assessor, has provided useful insights and suggestions to enhance the quality of the report. I duly acknowledge the assistance rendered by all in successful completion of the study.

the Chief Evaluation Officer

Karnataka Evaluation Authority

Acknowledgements

We express our sincere gratitude to Additional Chief Secretary, Planning, Programme Monitoring & Statistics Department; Government of Karnataka for her guidance and support. We thank Karnataka Evaluation Authority (KEA); Planning, Programme Monitoring & Statistics Department; Government of Karnataka for providing us the opportunity to conduct this study. Specifically, we would like to thank the Chief Evaluation Officer, KEA and Additional Chief Evaluation Officer, KEA for their timely suggestions, inputs and guidance that helped shape this study.

We would also like to extend our thanks to the Commissioner, Commerce and Industries, Government of Karnataka; Managing Director, Karnataka Udyog Mitra (KUM); Deputy Director, KUM and the interviewed Joint Directors at District Industries Centers for their enthusiastic support, inputs and timely information. Despite the fact that many Government departments/organisations were significantly impacted by the COVID-19 pandemic during the study, it was heartening to receive timely support and information from nodal officers across all the 17 participating line departments.

Further, we greatly appreciate the inputs provided by members of industry bodies – such as Karnataka Small Scale Industries Association (KASSIA), Federation of Karnataka Chamber of Commerce and Industries (FKCCI), American Chamber of Commerce in India (AMCHAM), Consortium of Electronic Industries of Karnataka (CLIK), Bangalore Chamber of Industries and Commerce (BCIC), Peenya Industries Association, and Mysore Chamber of Commerce and Industry – in the form of their responses to the investor survey questionnaire or their participation in the Focused Group Discussions (FGDs).

— Study team, led by Prasad Unnikrishnan, Principal Investigator

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List of Acronyms

	Authorization under Honordous and ather Monte
AHOW	Authorisation under Hazardous and other Waste
BBMP	Bruhat Bengaluru Mahanagara Palike
BDA	Bangalore Development Authority
BESCOM	Bangalore Electricity Supply Company
BOCW	Building and other construction workers
BP	Building Plan
BPR	Business Process Re-engineering
BRAP	Business Reform Action Plan
BWSSB	Bangalore Water Supply and Sewerage Board
CAF	Combined Application Form
CAGR	Compound Annual Growth Rate
CERSAI	Central Registry of Securitization Asset Reconstruction and Security Interest
COE	Consent for Establishment/Expansion
COO	Consent for Operations
СРІ	Consumer Price Index
DC	Deputy Commissioner
DIC	District Industries Center
DIL	Direct Industrial Licences
DLSWCC	District Level Single Window Clearance Committee
DMA	Directorate of Municipal Administration
DPAR	Department of Personnel and Administrative Reforms
DPIIT	Department for Promotion of Industry and Internal Trade
E.g.	Example
EC	Encumbrance Certificate
EIA	Environmental Impact Assessment
EMD	Earnest Money Deposit
EoDB	Ease of Doing Business
FAQ	Frequently Asked Question
FDI	Foreign Direct Investment
FGD	Focus Group Discussion
FTNC	Fast Track Network Connection
GIGW	Guidelines for Indian Government Websites
GO	Government Order
GOK	Government of Karnataka

GSDP	Gross State Domestic Product
GSVA	Gross State Value Added
HTTPS	Hypertext Transfer Protocol
ID	Identification
IDI	In-Depth Interviews
IEM	Industrial Entrepreneur Memoranda
IGR	Inspector General of Registration and Stamps
INR	Indian Rupee
ISMW	Interstate migration worker
KIADB	Karnataka Industrial Areas Development Board
км	Kilometre
КЅРСВ	Karnataka Pollution Control Board
ким	Karnataka Udyog Mitra
ĸw	Kilowatt
LBPAS	Land and building plan approval system
LCSA	Lease Cum Sales Agreement
LOI	Letter of Intent
LT	Low Tension
MeitY	Ministry of Electronics and Information Technology
MOU	Memorandum of Understanding
MSME	Micro, Small and Medium Enterprises
NA	Not Applicable
NeSDA	National e-Governance Service Delivery Assessment
NGSP	National Government Services Portal
NOC	No Objection Certificate
ОТР	One Time Password
PAN	Permanent Account Number
RDA	Resource Description and Access
ROR	Record of Rights
SHLCC	State High Level Clearance Committee
SIR	Special Investment Region
SLSWCC	State Level Single Window Clearance Committee
SMS	Short Message Service
STQC	Standardisation Testing and Quality Certification
SUC	Single Unit Complex
TOR	Terms of Reference
UGD	Underground Drainage
UTs	Union Territories
VFA	Value of Fixed Assets
W3C	World Wide Web Consortium

Executive Summary

This study evaluates the effectiveness of fifty-seven industry and citizen services ¹ across seventeen-line departments of the Government of Karnataka such as BBMP; BDA; KIADB; KSPCB; Revenue; Labour; Factories, Boilers, Industrial Safety & Health; BWSSB and others. It undertakes a detailed evaluation to assess the efficacy of these services and identify improvement areas and leading practices with an aim to enhance transparency and governance to catalyze domestic and foreign investments in State.

Broadly, the study examines the following for the time period between 1st April 2019 and 31st March 2020:

- 1 Applications serviced data, sourced from SAKALA, to analyze extent of applications processed, approval/rejection rate, rejection reasons and compliance with SAKALA timelines
- 2 Opinion of key department personnel on service delivery through In-Depth Interviews (IDIs)
- 3 Mode of delivery of these services whether it is online or offline, including assessment of services that are online using NeSDA (National e-Governance Service Delivery Assessment) framework to evaluate accessibility, ease of use, content availability, and information security and privacy
- 4 Investor perceptions about industry services through a brief survey and Focus Group Discussions (FGD)

The combined findings from the aforementioned instruments are used to formulate recommendations. The report also provides key recommendations for improving functioning of state single window system, for land allotment & industrial approval and in providing Micro Small, and Medium Enterprises (MSME) support.

¹ List of services as detailed in section 3.1 of Inception Report for Evaluation Study of Business Reforms Karnataka submitted to KEA

Key observations from the study:

The assessed departments, when segregated based on performance, could be categorized into "leading departments" and "focus departments." The leading departments are above average (above 70%) on parameters such as "process efficiency" characterized by adherence to SAKALA timelines, "IT enablement" quantified by NeSDA score and "stakeholder connect" characterized by approval/rejection rate. The focus departments, however, require improvements in one or all three parameters.

Lower approval rate, or higher rejection rate, is taken as a proxy for lower "stakeholder connect" as documents getting approved or rejected, regardless of the rejection reasons, have an impact on stakeholder perception. Importantly, proactive and accurate communication from the department on the process/documentation required is likely to minimize rejections to a great extent.

 <u>Leading departments</u>: These departments are Inspector General of Registration & Stamps, Department of Factories Boilers Industrial Safety & Health, and Bangalore Water Supply and Sewerage Board.

State Line Department	Name of the Service offered	Approval Rate	SAKALA Adherence	NeSDA Score	Remarks	
Inspector General of	Registration of Land/property	85%	100%	70%	The department's SAKALA adherence and approval	
Registration and Stamps	Registration of FIRMS	100%	75%	70%	ratings are amongst the highest. Its Kaveri portal is quite well-designed contributing to high ease of use and end service delivery.	
Department of	Approval of Factory Building Plan	87%	70%	84%	While the department enjoys high approval rate and above average adherence with SAKALA timelines, two services are end-to-end offline. The ones that are online require some manual touchpoints (such as physical inspections and document verification), especially for service such as Approval of Building Plan.	
Factories	Registration of Factories and Issue of license	86%	70%	84%		
	Approval of Boiler	95%	70%	NA - Offline		
	Registration of Boilers	92%	70%	84%		
	Certificate for recognition as Boiler	92%	77%	NA - Offline		
Bangalore Water Supply and Sewerage Board	Permission for new connection for water	81%	70%	87%	Majority of the queries that the department gets is on application processes/procedures. While the department scores high on approval rate, delays in processing are largely attributed to inadequate documentation provided by applicants.	

Analysis of leading departments:

• Focus departments: These line departments have a lower score (less than 70%) in one or all the aforementioned parameters. The table below identifies parameters where improvements are required for these departments. The succeeding table provides detailed scores across all assessed services.

Line Departments	Requires Process	Requires IT	Requires Better
	Efficiency	Enablement	Stakeholder Connects
Bruhat Bengaluru Mahanagara		$\mathbf{\overline{\mathbf{A}}}$	\checkmark
Palike (BBMP)			
Bangalore Development		\checkmark	
Authority (BDA)			
Department of Legal Metrology	$\mathbf{\overline{\mathbf{A}}}$	$\overline{\checkmark}$	
Drug Control			
Department			
Labour			
Department			
Revenue	\checkmark	\checkmark	
Department			
Karnataka State Pollution Control Board	\checkmark		
Karnataka Industrial Area			
Development Board			
Karnataka Fire & Emergency			
Service Department			
BESCOM			
Commercial Tax		$\overline{\checkmark}$	
Department			
Directorate of Municipal			
Administration			
Registrar of Co-operative			
Societies			
Department of Electrical Inspectorate			
Inspectorate			

Analysis of focus departments:

State Line Department	Name of the Service offered	Approval Rate	SAKALA Adherence	NeSDA Score	Remarks	
Commercial Tax Department	Issue of registration under the Karnataka Tax on Professions	100%	100%	53%	While the department scores 100% in approval rate and SAKALA adherence, its portal where the service is hosted requires considerable improvement in areas such as information security, application request tracking and availability of information in Kannada.	
Karnataka State	Consent for Establishment/Expansion (COE) Green	97%	53%	93%	Department has low score for red category services on SAKALA timeline adherence which is	
Pollution Control Board	COE Red Category Non-EIA (Environmental Impact Assessment)	92%	41%	93%	primarily due to higher scrutiny required for such applications.	
	Consent for Operation (CFO) Green	99%	78%	93%	However, for green category, the department officials attributed low SAKALA adherence to back	
	CFO Orange excluding Infrastructure projects	96%	74%	93%	and forth on inspection observations and	
	CFO Orange category Infrastructure projects	98%	71%	93%	submission of inadequate supporting documents by applicants	
	CFO Red EIA Projects	95%	57%	93%		
	CFO Red Non-EIA Projects	96%	43%	93%		
	Authorization under Hazardous and Other Waste (AHOW) Green	96%	84%	93%		
	AHOW Orange	99%	76%	93%		
	AHOW Red	90%	35%	93%		
Karnataka	NOCs for high-rise buildings	79%	39%	76%	Inspection noncompliance by applicants and	
Fire and Emergency	Clearance certificate	100%	2%	76%	multiple interaction with other line departments were primary reasons for these delays. Services delivered by departments still had manual interventions and offline interactions.	

State Line Department	Name of the Service offered	Approval Rate	SAKALA Adherence	NeSDA Score	Remarks
BESCOM	Application for additional/new Connection- LT2 & LT3	79%	67%	89%	 Department's comparatively low approval and adherence rate has been attributed to following reasons: 1) Mis match of information submitted by applicants such as address, construction stage, bore size etc. 2) Rejection due to nonpayment of applicant fees, non-submission of supporting such as building photo, NOCs from other department 3) Submission of applications in wrong jurisdiction
	Registration under the Karnataka Shops and Establishments	87%	68%	70%	Labour department's NeSDA assessment score is consistently low primarily due to observations
	Registration of Principal employer	94%	70%	63%	below: 1) Users are unable to effectively track the status of
	License to the contractor	96%	80%	63%	their requests and obtain timely updates 2) Non-availability of website content in Kannada
Labour Department	Registration of Establishment under the Building and Other Construction Workers	96%	70%	63%	language 3) Non-availability of a feature to log
	Registration of Building and other Construction Workers	96%	80%	48%	complaints/grievances and provide feedback 4) Inadequate information security
	Registration Inter State Migration Workers	75%	75%	63%	
	Grant of Fresh Drug Manufacturing License	No applicants	No applicants	47%	The department's website scores low on information accessibility and ease of use, especially the portal
Drug Control Department	Retail License for Sales	99%	72%	70%	for drug manufacturing license. Users are also unable to effectively track the status of their requests Information security measures need considerable improvement

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Analysis of focus departments:

State Line Department	Name of the Service offered	Approval Rate	SAKALA Adherence	NeSDA Score	Remarks
	Issue of Trade license	93%	33%	69%	Processes and procedures requiring multiple interactions with associated line departments is
	Building License Issuance	83%	23%	76%	often cited as a reason for delays resulting in low SAKALA adherence. Multiple interactions owing to inspections and compliance with inspection
Directorate of	Permission for water supply and UGD	99%	31%	71%	observations is also seen as contributing to the delay. It should be noted here that one service is end-to-end offline.
Municipal Administration	Occupancy certificate Issuance	97%	65%	76%	
	Change of Property Ownership	86%	23%	NA – offline	
	Road Cutting (Right of way)	99%	87%	76%	
Registrar of Co- operative Societies	Registration of Societies	100%	43%	64%	The manual touchpoint in the process (physical verification of documents submitted and any back- and-forth on these documents) often contribute to the delay. The web portal also needs considerable improvement on information accessibility, ease of use and ability of users to track the status of their requests.
Bangalore Development Authority (BDA)	Obtaining Possession Certificate	93%	75%	31%	Department website needs considerable improvement in terms of information accessibility, ease of use, and information security.
Revenue Department	Conversion of agriculture land to non-agriculture purpose	59%	68%	69%	Delay in processing applications attributed to multiple interactions involved with other concerned department officials.

State Line Department	Name of the Service offered	Approval Rate	SAKALA Adherence	NeSDA Score	Remarks
Department of Legal Metrology	Issue of New License	53%	45%	73%	Interactions with department officials revealed that inadequate process knowledge, inadequate supporting documents and inspections were primary reasons for delays and rejections.
Karnataka	Land Allotment	80%	51%	67%	Inspections and ensuing back and forth on compliance of inspection observations are often cited as the reason for delays. Supporting
Industrial Area Development Board	Sanction of building plan	32%	25%	67%	documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department on average requires more than 7x of the sanctioned time for land allotment and 16x of the sanctioned time for BP approval.
	Trade License	94%	73%	60%	Primary reasons observed for delays were due to inadequate supporting documents submitted by applicants, non-compliance
	Sanction of Building Plan	89%	47%	67%	with building by laws, wrong jurisdiction, lack of submission of original documents. Interactions with officials also revealed that offline submission of documents is still prevalent. Also, update to
	Tree Felling & Transit Permission	64%	52%	47%	users, on the status of their applications, are provided intermittently i.e., on case-to-case basis.
Bruhat Bengaluru	Right of Way permission	Data not available	Data not available	49%	For occupancy certificate and commencement certificate only, partial data (for 4 out of 10 zones) was made available by the
Mahanagara Palike (BBMP)	Khata Registration	Data not available	Data not available	73%	department. For occupancy certificate issuance department takes more than 27x, for commencement certificate issuance more than 9x of the sanctioned time. NeSDA score are not considered due to
	Building Completion Certificate	Data not available	Data not available	65%	very low rate of adherence.
	Obtain Occupancy Certificate	Data not available	3%	NA	Note: Applicant data for Khata registration, right of way and completion certificate were not made available by concerned department for analysis. As per comments received from
	Obtain Commencement Certificate	Data not available	2%	NA	department completion certificate is not a standalone service but an application form for obtaining Occupancy certificate.

Karnataka Evaluation Authority | Page 5

Top 10 services ranked by process efficiency, stakeholder connect and IT enablement are tabulated as below.

Top 10 Services	For SAKALA Adherence Score indicative of High Process efficiency	For NeSDA Score indicative of relatively high level of IT enablement	For Approval rate indicative of efficient stakeholder connect		
1	Registration of Land/property	Approval of Factory Building Plan	Registration of FIRMS		
2	Issue of registration under the Karnataka Tax on Professions	Registration of Factories and Issue of license	Retail License for Sales by Drug Control		
3	Road Cutting (Right of way) by DMA	Registration of Boilers	Clearance Certificate for Fire		
4	Authorization under Hazardous and Other Waste (AHOW) Green	Permission for new connection for water	Issue of registration under the Karnataka Tax on Professions		
5	License to the contractor	Trade License	Registration of Societies		
6	Registration of Building and other Construction Workers	Sanction of Building Plan	Permission for water supply and UGD by DMA		
7	Authorization under Hazardous and Other Waste (AHOW) Orange	Application for additional/new Connection- LT2 & LT3	Road Cutting (Right of way) by DMA		
8	Consent for Operation (CFO) Green	All KSPCB services across categories for Consent against Water and Air act	Commissioning Approval Industrial Installations		
9	CFO Orange excluding Infrastructure projects	Approval of drawings of electrical installation	CFO Orange category Infrastructure projects		
10	Registration Inter State Migration Workers	Commissioning Approval Industrial Installations	Consent for Operation (CFO) Green		

Bottom 10 services ranked by process efficiency, stakeholder connect and IT enablement is tabulated as below.

Below 10 Services	For SAKALA Adherence Score indicative of High Process efficiency	For NeSDA Score indicative of relatively high level of IT enablement	For Approval rate indicative of efficient stakeholder connect
1	Obtain Occupancy Certificate by BBMP	Obtaining Possession Certificate by BDA	Sanction of building plan by KIADB
2	Obtain Commencement Certificate by BBMP	Issue of registration under the Karnataka Tax on Professions	Conversion of agriculture land to non-agriculture purpose by Revenue Department
3	Fire Clearance Certificate	Right of Way permission by BBMP	Issue of New Drug License
4	Change of Property Ownership by DMA	Grant of Fresh Drug Manufacturing License by Drug	Tree Felling & Transit Permission by BBMP
5	Building License Issuance by DMA	Right of Way permission by BBMP	Registration Inter State Migration Workers
6	Sanction of building plan by KIADB	Tree Felling & Transit Permission by BBMP	Fire NOC for High- rise building
7	Permission for water supply and UGD by DMA	Registration Inter State Migration Workers	Application for additional/new Connection- LT2 & LT3
8	Issue of Trade license by DMA	Registration of Societies	Land Allotment by KIADB
9	Authorization under Hazardous and Other Waste (AHOW) Red	Issue of Trade license by DMA	Building License Issuance by DMA
10	NOC for High- rise building by Fire	Land Allotment by KIADB	Change of Property Ownership by DMA

Other observations (inter-departmental analysis and investor perception)

A regression analysis was performed to understand the associations between process efficiency, IT enablement, and stakeholder connect (see annexure in section 7.1 for details). The services where data was available for all the three parameters, i.e., 45 services across 17 departments, were assessed for understanding the relationship between them.

The analysis of association between process efficiency (indicated by adherence to SAKALA timelines) and stakeholder connect (indicated by approval rate) indicate that there is a significant, positive correlation between these two parameters. The relationship between the two parameters could be explained by the linear equation Approval Rate= 0.64 + 0.37 * (SAKALA Adherence).

This makes sense as both 'approval rate' and 'SAKALA adherence' are indicative of efficient service delivery. In other words, any improvements to service delivery by the department usually results in improvement in both the aforementioned parameters.

Another aspect that has been assessed is the collective effectiveness of related services across line departments in terms of dependency and service delivery timelines. Scenario analysis has been used to make this assessment. Towards that end, the following two scenarios, involving establishing an industry at the opposite ends of the spectrum (red and green categories), were considered (see figure below).

Scenario 1

Setting up a manufacturing unit in the red category industry, for instance an aluminum smelter Setting up a software unit/ITES/BPO that generates up to 10 kilo litres of wastewater per day

Scenario 2

Scenario 1: Setting up a manufacturing unit in red category, for instance an Aluminum smelter

- Requires tree felling, would engage contract labors, interstate migrant and other construction workers
- BWSSB water supply and High-tension meter for power required

Pre-requisites for Establishment

- Industrial Entrepreneurs
 Memorandum
- ROC, GST and PAN Registration
- Approval from state committee
 based on investment size

Pre-Establishment Clearances	SAKALA Timeline in days	Mean Time taken during 2018-19 in days	
Tree Felling Permission	90	Not Available	
Consent for Establishment - Red	70	134.3	
Approval for Boiler erection	90	65.4	

Consent for Operations	SAKALA Timeline in days	Mean Time taken during 2018-19 in days
Consent for Operations – Red	120	191.2
Commissioning of Electrical Inspectorate	20	42.1
Factory License	90	53.8

Service Connections	SAKALA Timeline in days	Mean Time taken during 2018-19 in days
Service connection from BESCOM	30	128.1
Connection from BWSSB	42	72.6
Electrical drawing approval	20	40.3
		1

Labour Related Clearances	SAKALA Timeline in days	Mean Time taken during 2018-19 in days
Registration under contract labour	15	5
Registration under ISMW	15	10
Registration under BOCW	15	8

	 generates of the second second	wastewater tree felling, migrant and vater supply	o a software unit o f up to10 kilo would engage cont d other constructio and High-tension r Volt Ampere DG so	itres ract la n work neter	per day Ibors, kers	 Indust Memo ROC, 0 Appro 	rial Entrepre randum GST and PAN	NRegistration te committee			
	Pre-Establishment Clearances	SAKALA Timeline in days	Mean Time taken during 2018-19 in days		Service Connections		SAKALA Timeline in days	Mean Time taken during 2018-19 in days			
	Tree Felling	90	Not Available		Service connector from BESCOM		30	128.1			
	Permission				Connection fro BWSSB	m	42	72.6			
	Consent for Establishment - Green	30	32.5						Electrical draw approval	ing	20
]			
	Consent for Operations	SAKALA Timeline in days	Mean Time taken during 2018-19 in days		Labour Relat	ed	SAKALA Timeline in days	Mean Time taken during 2018-19 in days			
	Consent for Operations – Green	120	28		Registration ur contract labou		15	5			
	Commissioning of Electrical Inspectorate	20	42.1		Registration ur ISMW	nder	15	10			
	Final NOC	60	123	_	Registration ur BOCW	nder	15	8			

The scenarios considered above have been categorised in four stages for setting up of a unit in Karnataka and results observed for any delays at these stages have been tabulated below.

Delay Observed (If any) in below stages	In Scenario 1 (In Days)	In Scenario 2 (In Days)	Concerned Line Departments
Pre-Establishment Clearances	44.3	2.5	DMA/BBMP, KSPCB , Factories
Service Connections	86.1	86.1	ESCOM, BWSSB, Electrical Inspectorate
Labour Related Clearances	No delays	No delays	Labour
Consent for Operations	71.2	3	KSPCB, Electrical Inspectorate, Factories

Departments contributing the delay are highlighted in red

It was noted that there were significant delays in both the scenarios i.e. in three out of the four stages of setting up a manufacturing or service unit in the state. Moreover, delays are almost 50% higher in cases of setting up a manufacturing unit compared to delays observed in setting up a services unit.

The delays could be reduced if line departments such as BESCOM, Electrical Inspectorate, KSPCB, Karnataka State Fire Dept. and BWSSB streamline their processes and expedite approvals. In case of red category industries, it is understandable that KSPCB takes more time to consider the pros and cons of setting-up the industry. However, delays were observed for providing consent to green category industries as well.

Above observations of delays from the concerned line departments is further strengthened and corroborated by findings from the industry stakeholders' interactions that were conducted across all the four divisions of the state. Some of the key findings from these interactions are summarised below:

- The State's single window and its counterparts at the district level function in a decentralized manner. The DICs enjoy considerable autonomy. While this structure has its advantages, on the flip side, it is contributing to a high level of variance across the districts on the way in which these DICs function. As highlighted by industry representatives in our Focus Group Discussions, this often leads to ambiguity and inconsistent service standards.
- The State's single window (KUM) and the line departments assessed need to work more cohesively, especially regarding industry-related services. As of now, investors must individually follow-up with concerned line departments for approval after getting a go-ahead from KUM. Such findings are further confirmed by the opinion survey where majority of investors (i.e. 80%) opined to have reached out to line departments for availing investor services in the state and mostly (i.e. 78%) through offline channels
- Specifically, land and construction-related approvals for a project in the state requires multiple follow ups from the concerned investors with different line departments involved instead of via a one-stop single window system nodal

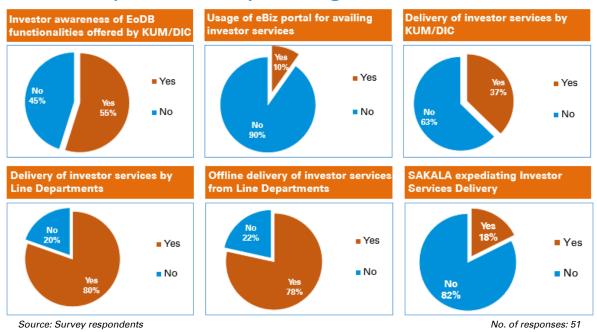
office (DIC) functioning in the district. This contributes to considerable delays in project implementation at the ground level. Some of these delays in delivery of specific services or cumulative delay in delivery of related services have been highlighted previously in this section (refer to pages 13 through 17).

- Centralized approval/NOC for the industry through single window system is not seamless and it requires multiple follow-ups by applicants with other departments.
- Investors opined that there is a need to expedite land allotment by state institutions as any significant delays could result in cost escalations, for instance due to increased allotment price, making projects unviable, at times.
- Grievance redressal for the investors at taluk or district level offices such as DIC or nodal officers from line departments have been found to be working intermittently with little to no digitization of such processes in these offices.
- KUM/DICs need to engage MSMEs and their associations better through workshops, seminars etc.

Key observations from the investor opinion survey conducted among the investors in the state are listed as below:

- Relatively low awareness (i.e. 55%) among investors about the functionalities about investor services offered by KUM/DIC
- Low usage of eBiz portal observed among investors (i.e. 10%) and only 37% utilised KUM/DIC services in the state
- While most of the services assessed were online, it appears many investors (78%) are not aware that they can avail these services online. Alternatively, they may have found these portals less user friendly (as NeSDA scores for some services indicate). This is because majority of them (i.e. 80%) indicated that they have availed industry services through offline channels.
- Majority of investors (i.e. 78%) opined SAKALA has not expedited service delivery to investors in the state. This could be because adherence to SAKALA timelines is found to be low across majority of the assessed services/line departments. It could also be because SAKALA timelines themselves are

found to be 2x to more than 10x higher than notified service delivery timelines in States like AP and UP (see page 128 for comparison).



Investor Opinion Survey Findings

Recommendations for improvement of service delivery, including e-service delivery, for all the concerned departments are detailed later in this report. Some of the overarching recommendations are as listed below:

- Interactions with most departments indicate that many cases of delays in approval are a result of insufficient understanding of the process or inadequate submission of required documents by applicants. This could be addressed by helping applicants get a better understanding of the application process through online how-to guides and physical helpdesks at department offices.
- 2) SAKALA adherence is noticeably less in services that require approval of architectural drawings owing to the back-and-forth interactions between departments and applicants. An intelligent system that analyses AUTO-CAD drawings of building plans to provide a compliance report (similar to the one implemented by AP's Factories Department) could help.

- In services where inspections are causing process delays, prudent use self-certifications and auto-renewals could help address the issue.
- 4) Business facilitation rules (SAKALA) could be strengthened to provide more powers to SAKALA Mission/KUM to enforce the prescribed timelines.
- 5) KUM, DICs and concerned line departments need to function more cohesively and offer services on a single, integrated, online platform to investors. One portal, one email and one helpline number, similar to AP's Single Window, could be adopted to offer all industry services in an integrated manner. It would help if KUM's eBizz portal could adopt wizards and chatbots to help investors get to the right information quickly.
- 6) KUM should provide a centralized mechanism (including a hotline) to address all investor grievances whether it is concerning KUM or DICs or for that matter concerned line departments offering industry services. Additionally, KUM/DICs should engage more frequently with industry associations similar to AP Single Window's Governance Cell.

1. Introduction

1.1. Background

An economy's growth, as recognized by several empirical studies, is positively correlated with ease of doing business, leading to enhanced job creation, increased per capita income and the high level of economic activity. The "ease of doing business" stems from regulatory lucidity, fewer and faster procedures, and expeditious approvals.

Since 2014, Department for Promotion of Industry and Internal Trade (DPIIT) has spearheaded a national level exercise to rank all the States/UTs in the country on the reforms undertaken by them on designated parameters. The aim of this exercise is to create conducive business environment by streamlining regulatory structures and creating an investor-friendly business climate by cutting down red tape. In the latest edition of State Business Reform Action Plan (BRAP) 2019 ranking, Karnataka's ranking has reduced to 17th position in the country from last year's 8th position². It is to be noted here that this edition of BRAP ranking was completely based on 'users' feedback as against the State's declaration of reforms implemented (the latter contributed to 60% of the score in the previous editions). Given that the introduction of this new methodology coincides with the State's decreased ranking, it can be inferred that the entrepreneurs have not been receiving the true benefits of the reforms implemented by the State.

However, recently Government of Karnataka has fast-tracked its efforts to attract investors with measures like amendments to the Land Reforms Act and Karnataka Industrial (Facilitation) Act. In its bid to attract more investors and industries, the State Government has come up with ordinances that enhances "ease of doing business". The Karnataka Industrial Policy 2020-25 is aimed at the states holistic development and the promotion of industrially backward districts. The policy, innovatively, offers incentives and concessions based on production to promote production-based performance, especially for MSMEs. It also envisages to set-aside 30% of the available land in industrial areas for MSMEs in the state. Apart from the its industrial policy, the state government has recently relaxed many

² Department for Promotion of Industry and Internal Trade, Government of India

regulations, including land acquisition and labour laws to attract investments. These include removing restrictions on non-agriculturists purchasing agricultural land; increasing overtime to 125 hours per quarter; linking wage revisions to factors such as Consumer Price Index (CPI)) and inflation; and allowing companies to start operations after it is cleared by high-level committees without waiting for further clearances and approvals from concerned line departments. Few of the major objectives for the Industrial Policy 2020-25 are depicted below:

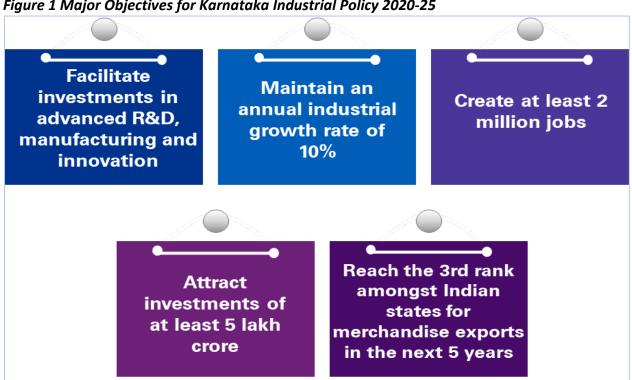


Figure 1 Major Objectives for Karnataka Industrial Policy 2020-25

1.2. Need for the project

In this context, this evaluation study of the industry related services modules of major line departments in Karnataka is undertaken to take stock of the de facto reality of the effectiveness of these modules in delivering desired services to the investors, identify gaps and suggest improvements to make them more investor friendly and thus boost the investment climate of the state.

This would help state to further improve its regulatory process and attract new investors to invest in Karnataka state in this competitive market, by offering them a robust automated Karnataka Evaluation Authority Page 16

system in the state wherein businesses are facilitated with end-to end service delivery by creating smooth transition from receiving an investment proposal to the implementation and operationalization of the project and its after care through adequate monitoring.

The scope of this assignment was to undertake a detailed diagnostic study to understand the effectiveness of fifty-seven service modules across seventeen-line departments (detailed in the sanctioned Terms of Reference for the study) in delivering the services to the investors and identify gaps if any to adopt best practices across modules which will result in transparency, governance and catalyses investment grounding in the state. The service delivery for the investor applications collected and analysed are for all the applications received from 01/04/2019 to 31/03/2020.

1.3. Objectives

Primary objectives for the study as stated in the Terms of Reference (ToR) is depicted below:

1	To Study the role played by Karnataka Udyog Mitra (KUM) as single window portal and the service it offers to investors in the state to facilitate investments	₩ -₩_
2	To compare and benchmark the best practices adopted by Indian states in EoDB	iii i
3	To critically analyse the service delivery mechanism for respective line departments on parameters of adherence to timelines and the approval workflow process	اس
4	To scrutinize the requisite documentation and procedures involved in obtaining a service to ensure minimal redundancy and adherence to timelines across all kind of investor groups	\mathcal{P}
5	To analyse ease of accessibility, submission of application, access to information on the portal, ease of handling, and e- payments across the group of investors and regions	
6	To carry out gap assessment exercise for all the identified service modules and recommend measures to substantially improve process efficiency	1
7	To examine the impact of service delivery on the growth of investment by enterprises and entrepreneurs in the state	(<u>(</u>))
8	To benchmark and adopt the best practices in EoDB from across the Indian states and/or from other economies with an objective to be the top performer state in India for EoDB	*

Figure 2 Primary objectives of the Evaluation Study

1.4. Scope of work

The scope of the project as derived from the ToR (Attached as Annexure) of the project can be summarised as follows:

- 1. Literature study for the EoDB practices in Karnataka and India
- 2. Study of EoDB practice in Karnataka
- 3. Study of service delivery procedure for all the seventeen-line department and identified services
- 4. Study of digitization of identified services by deploying NeSDA assessment framework
- 5. Study of service delivery impact on investors in terms of investments, growth in projects and industrial units
- 6. Study of act and policies related to EoDB
- Identification of issues and constraints and assessment of efficiency/success of investor service delivery in Karnataka
- 8. Recommendation for making investor reforms more efficient, transparent and inclusive in state

1.5. Chapterisation

- Chapter 1 introduces the assignment with its objectives and scope of work.
- Chapter 2 details the relevant literature review for the study and the adopted evaluation methodology
- Chapter 3 describes the functional and service delivery procedure for each department
- Chapter 4 critically analyses the performance of investor reforms in Karnataka through primary and secondary data and information, focus group discussion, interviews and site visits to draw out critical findings
- Chapter 5 brings out benchmark case studies from other top performing states
- Chapter 6 contains the recommendations to further improve service delivery to investors to promote investor friendly business environment

2. Literature review and evaluation methodology

2.1. Relevant literature for the study

Since 2014, Department for Promotion of Industry and Internal Trade (DPIIT) has spearheaded a national level exercise to rank all the States/UTs in the country on the reforms undertaken by them on designated parameters. The aim of this exercise is to create conducive business environment by streamlining regulatory structures and creating an investor-friendly business climate by cutting down red tape. India a federally structured nation, States/UTs play a vital role in promoting investor confidence. The process of assessing State level reforms has been a journey of evolution and is an ongoing process.

In 2014, the representatives of the State Government identified reforms to be undertaken by them and a new measure of competitiveness was initiated. Subsequently, a report titled "Assessment of State implementation of Business Reforms" was released in September 2015 capturing the findings and status of reforms implemented by States/UTs.

In 2016, DPIIT released a 340-point action plan which was drafted in consultation with all States/UTs. It included recommendations on 58 regulatory processes, policies and process spread across 10 reform areas spanning the lifecycle of a typical business. Such an action plan was the first of its kind in India which promoted both competitive and cooperative federalism among the States/UTs. Subsequently, an online portal (www.eodb.dipp.gov.in) showcasing dynamic real time rankings was developed and launched in April 2016 which is the first such platform for knowledge sharing on regulatory compliance requirements.

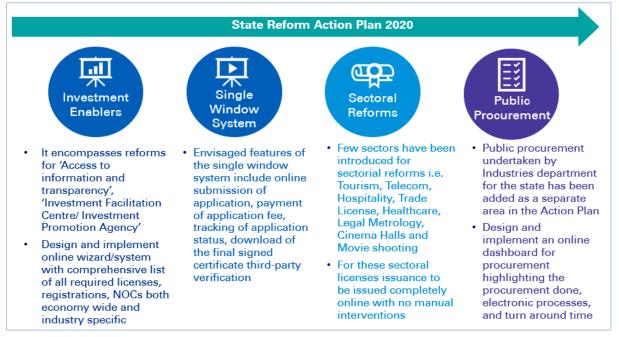
Final ranking of States/UTs on implementation of the 340 points were released in November 2016. The national implementation average stood at 48.93% higher than 2015's national average of 32% and 12 States achieved more than 90% implementation score.

BRAP 2017-18 was updated to 372 action points with addition of new sectors such as Healthcare and Hospitality, Central Inspection system, Trade License, Registration under Legal Metrology, and Registration of Partnership Firms & Societies. An important addition to methodology under BRAP 2017-18 was the inclusion of feedback exercise where feedback was sought on 78 reform points from actual users of new system. The respondent data in various categories was provided by the States/UTs. For BRAP 2019, DPIIT undertook 100% feedback-based assessment on all 80 recommendations for reforms on regulatory processes, policies, practices and procedures spread across reform areas.

The latest rankings released in September 2020 are based on the performance of states on a wide-ranging list of 180 reform points covering 12 business regulatory areas such as Access to Information, Single Window System, Labour, Environment, etc³.

Starting with a 98-point Reform action Plan in 2014, successive State Reforms Action Plans have been released by DPIIT covering more areas of reform. The objective of the successive action plans is to layout the series of reforms targeted at increasing transparency and improving the efficiency and effectiveness of regulatory framework and services for businesses in India. The Action Plan for the next year 2020 consists of 301 Reform points spread across 15 Areas⁴. Key highlights of the state reform action plan are depicted below:

Figure 3 Key EoDB Reform Action Plan 2020



³ Business Reforms Action Plan (dipp.gov.in)

⁴ Implementation guide for State Reforms Action Plan, 2020 accessed from https://eodb.dipp.gov.in/PublicDoc/Download/30337 Karnataka Evaluation Authority | Page 20

2.2. Evaluation and data collection methodology

The methodology for the evaluation study (has been derived in the purview of the broad area of evaluation and the scope of work for the study) consisting of analysis of primary and secondary information availed through policy document reviews, documents and reports, site visits, primary survey and department applicant data. Secondary research has been undertaken for understanding EoDB policies and processes prevalent at state level. Data collected through primary and secondary means have been statistically analysed to reveal trends and facts. Field survey was done across industry state holders to understand the investor business reforms process. Inferences have been compared and compiled to arrive at short term and long-term proposals for making investor reforms in the state more efficient, effective and industry friendly. Brief bar activity chart lists down the major activities undertaken for the purpose of evaluation study.

Primary Activities & Milestone for Study	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020
Milestone: Inception Report						
Literature review, evaluation framework formulation, survey design						
Pilot Survey & incorporating KEA suggestions						
Milestone: Field Survey Compilation						
Undertake field data compilation for applicant data for services, NeSDA assessme						
Conduct official interviews an undertook industry discussion						
Milestone: Draft Final Report						
Comparative and benchmarki for investor practices in state vis a vis best practices	ng					
Gap analysis, recommendatio curation and incorporating suggestions	n					

Figure 4 Overall methodology for the evaluation study

Evaluation matrix for the study presented below has been developed on the conceptual framework discussed above and in cognizance of various business reforms adopted practices of better performing economies. It focuses on the terms of reference of the study i.e. main evaluation questions, main evaluation sub-questions, key indicators for the evaluation questions, sources of data, collection and analysis methodology for the collected data.

SI.	Main	Sub Questions	Indicators	Sources of	Method of	Data Analysis
No.	Questions			Data	Data collection	
_			, <u>.</u> .	· · · · ·		
1.	Applicant	a) Applications	a) Approval	a) In depth	a) Survey tools	a) Quantitative
	analysis for	serviced by	rates	Interviews	b) 120 serviced	analysis
	service	departments	b) Rejection	with	applications	b) Qualitative
	delivery by	during	rates	KUM/DIC	from KUM	analysis
	respective	assessment	c) Time-line	officials	between	c) BPR for
	line	period	adherence	b) In depth	01/04/2019	process workflow
	departments	b) Time-line	d) Online	Interviews	to	improvement
		analysis of the	availability of	with Line	31/03/2020	d) Benchmarking
		serviced	services	dept.	c) GO/Orders/	for National &
		applications	e) Payment	officials	Minutes/Disc	International Best
		c) Seamlessness of	security	c) Investor	ussion	Practices
		the services	offered	opinion	Papers etc.	
		offered under	f) Effective	survey	d) Discussions	
		processed	tracking	d) Investor	with	
		investor	mechanism	applications	Officials,	
		applications	g) Redressal	received	Industry &	
		d) Line department	mechanism	between	Investors	
		wise analysis for		01/04/2019 to		
		services &		31/03/2020		
		processes		list from		
		adopted		KUM		

Table 1 Detailed Evaluation Matrix for the Study

SI.	Main	Sub Questions	Indicators	Sources of	Method of	Data Analysis
No.	Questions			Data	Data collection	
		e) Information & Handholding				
		activities				
2.	Service	a) Website analysis	a) Ease of	a) In depth	a) Survey tools	NeSDA
	Website	for ease of	access	Interviews	b) Department	framework
	Assessment	accessibility,	b) Security	with	Official	illustrated below
		submission of	Aspects	KUM/DIC	Discussions	is leveraged to
		application,	c) Application	officials	c) GO/Orders/	assess the
		access to	Tracking	b) In depth	Minutes/Disc	websites
		information on	d) Approval	Interviews	ussion	
		the portal, ease	Rate	with	Papers on	
		of handling the	e) Adherence of	concerned	Investor	
		process,	Timelines	line dept.	Reforms	
		workflow, ease	f) Low fees of	officials	d) Secondary	
		of applying,	service	c) Investor	Research	
		document	delivery	opinion		
		upload, tracking	g) Minimal	survey		
		applications,	procedural	d) Investor		
		downloading	steps for	applications		
		final certificate	delivery	received		
		and online	h) Security &	between		
		payments	encryption	01/04/2019 to		
		across the group		31/03/2020		
		of investors and		list from		
		regions		КОМ		
		b) Analysis of				
		service delivery				
		interdependence				

SI.	Main	Sub Questions	Indicators	Sources of	Method of	Data Analysis
No.	Questions			Data	Data collection	
		across				
		departments				
		c) Analysis of cost				
		and other				
		resources				
		incurred by				
		investors to				
		obtain the				
		services				
3.	Functional	a) Workflow	a) Modules	a) Test results	a) Dummy	NeSDA
	aspects of	process end to	accessibility,	of dummy	login tests	framework
	service	end application	quality and	logins for all	b) Prototype	illustrated below
	modules	approval	usability	services	testing	is leveraged to
	including eBiz	b) End to end	b) Workflow	rendered	c) Survey	assess the
	Portal	integration of	ease for	online	Tools	websites
	Karnataka	services	documents/	b) Opinion		
		rendered online	services/	survey with		
		by concerned	c) Bilingual &	applicants		
		departments	security	c) IDI's with		
		c) Browsers	features	department		
		compliance	offered	officials		
		standards				
		d) Bilingual				
		Support				
		e) W3C				
		Compliance				
		f) Security				
		Compliance				
		Compilation				

SI.	Main	Sub Questions	Indi	icators	Sources of	Method of	Data Analysis
No.	Questions				Data	Data collection	
		 Sub Questions a) Analyse the percentage increase in growth of industries/busi ness services in pre and post Sakala period in the State and percentage change decrease in 	a)	Trends for Industries/ Business in Karnataka post Sakala Act Trends for Investment	Data a) Focused Group Discussion with	Data collection a) Focused Group Discussion with Industry & Investors	Data Analysis a) Quantitative analysis b) Qualitative analysis c) BPR for process workflow improvement d) Benchmarking for National & International Best Practices
		decrease in time taken for final approvals b) Analyse the service delivery trends across the services and Departments as against the scheduled time period. c) Examine construction	e)	Correlation Rate among Dept Observatio ns from AS		SAKALA and departments d) Secondary Research	

SI.	Main	Sub Questions	Indicators	Sources of	Method of	Data Analysis
No.	Questions			Data	Data collection	
		permits				
		timelines				
		d) Benchmarking				
		& Gap Analysis				
		for AS IS of				
		Investor				
		Reforms to				
		adopt best in				
		class practices				
		e) Review				
		functioning of				
		grievance				
		redressal				
		mechanism				
		f) Investor				
		Opinion/Percep				
		tion Survey				

The qualitative field survey research for the study was conducted by means of structured questionnaire-based survey with officials and industry in form of interviews and focused group discussion. Quantitative data for the study for all the fifty-seven services as per the scope of the study was sourced from SAKALA and in some cases from the concerned department. Thus, primary data for the study is based on the survey research conducted in form of SAKALA and department data, field interviews, focused group discussions and online assessment by leveraging National e-Governance Service Delivery Assessment (NeSDA) assessment framework as below. All the website for services were examined on the below parameters and scores were awarded for existence or nonexistence of a feature. Detailed scoring is provided in Annexure of the document.

 NeSDA Framework Parameters Assessed for State Department Portals 						
Accessibility	Content Availability	Ease of Use	End Service Delivery	Information Security & Privacy	Integrated service delivery	Status and request tracking
Existence of Service links Bilingual Content Nodal officer information Contact-us Downloadable forms Multi navigation routes Personal user profiles Service history Compatibility	 FAQ section Site map Updated content Service counters Feedback/griev ances logging feature Know how for Digital Signature 	 Service to be available at two clicks Social media Top 5 results in search engine Search feature for website Internal workflow How-to guides and help manuals 	 Mode for end service delivery OTP authentication Mandates department visits Manual interventions 	 HTTPS complaint Third party security alliance W3C compliance Two factor authentication Password expiry/unauthori zed access reminders 	 Payment gateway integration Multiple payment option provision Unique sign on for users Digital signature for NOC/Approvals Auto population of related content 	 Application tracking Application status intimation Grievances/ Complaints tracking Feedback feature for users Dedicated webpage for payment resolution

Figure 5 NeSDA Assessment Parameters

2.3. Field survey activities and limitations

Activities undertaken for collection of primary data and its status is depicted as below, details of all the below analysis are amended in annexure of this document:

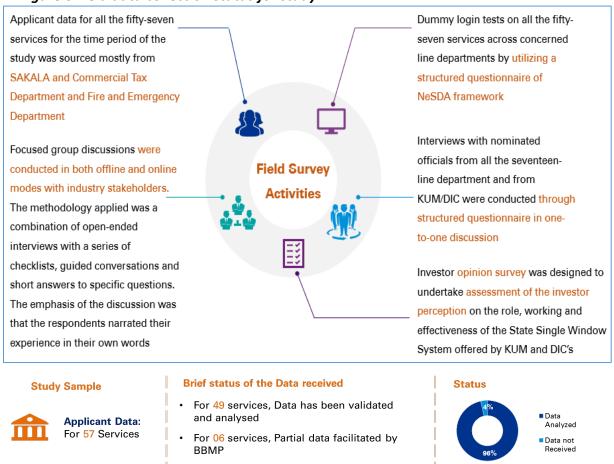


Figure 6 Field data collection status for study

	,≡	
4		b

2

Survey Samples: 75 IDI 10 FGD 120 Opinion Survey

Online Module

Assessment: For 57 Services

	DDIVIF	
	• For 02 services, no data facilitated by BBMP	
	 For 57 services, NeSDA assessment completed across all departments 	
:	IDI: 35 with Line Departments and 10 with KUM & DIC completed	
	FGD: 10 Completed, 5 Offline & 5 Online	
	Opinion Survey: 51 response received via Online Investor opinion survey link (https://www.research.net/r/ebizkarnataka)	

Data Analyzed Data not Received Data not Received One Completed So% 40% Analyzed One Analyzed Data not Received No Nomination

Completed

Opinion Survey conducted over a restricted sample of 51 responses (as agreed with KEA), from active Industry Association members across the state.

Above field data collection approach and methodology has few limitations which are discussed as below:

- A. For the dummy login tests of the online service modules, utilizing the NeSDA assessment framework could not test the integration of payment gateways and its performance. However, such experiences were captured through interviews and discussions conducted with officials and investors respectively.
- B. For the dummy login tests of the online service modules, utilizing the NeSDA assessment framework could not test the end service delivery i.e. receipt of delivery by applicants and matters thereon. However, such experiences were captured through interviews and discussions conducted with officials and investors respectively.
- C. For the planned focused group discussions, five out of ten planned discussions were conducted through online mode due to prevailing outbreak of COVID 19. However, other five were conducted offline and covered all the four divisions of the state i.e. Mysore, Shimoga, Hubbali and Kalburgi. For the discussions conducted online it was ensured that industry stakeholders participations are from across the state.
- D. Interviews with all the District Industries Centre could not be completed due to nonavailability of information and nominations from concerned departments. However, interviews with six major DIC's nodal officers were conducted with sufficient representation from Karnataka Udyog Mitra (KUM).
- E. Applicant data for the services sourced from SAKALA contains cases were the date of processing of application is before the application submission date, this is due to entry error on format of data performed at the time of feeding data by the concerned line departments to the SAKALA database. However, such cases are restricted to less than 10% of the total applications for a given service.
- F. Applicant data for the services sourced from SAKALA does not consistently provide details on the reasons for rejected applications or applications that are delayed and fail to adhere to SAKALA timelines. However, such information was sourced from interviews conducted with concerned line department officials.

3. Service delivery assessment for State departments

As elaborated in earlier sections, evaluation study for industry services modules undertakes a detailed diagnostic study to understand the efficacy of fifty-seven service modules across seventeen-line departments in delivering the services to the investors and identify gaps if any to adopt best practices across modules which will result in transparency, governance and catalyses investment grounding in the state.

This study examines the performance delivery of industry related services as per timeline, process of delivery, clarity of service delivery and challenges faced by the industry. Service delivery by the concerned line department in the time period of the study i.e. 1st April 2019 to 31st March 2020 is assessed against the scheduled number of mandatory days for delivery of service, functional aspects and mode of service delivery across all the modules. Findings based on available data for the time period of the study is categorised department wise in below sections.

3.1. Bruhat Bengaluru Mahanagara Palike (BBMP)

There were total of eight services under the study scope for the department namely trade license, building plan sanction/approval, tree felling, right of way, Khata registration, completion certificate, occupancy certificate, commencement certificate. Key inferences from NeSDA assessment and applicant data analysis of all these services is as below.







Figure above graphically depicts the NeSDA assessment scores for all the services for BBMP (detailed score in Annexure). Major improvement areas for these services are listed as below:

SI.	BBMP	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
1	Trade License	Department Website i.e. <u>http://bbmp.gov.i</u> <u>n/trade-license</u>	 Provision for users to make personal login profiles Integration of information security features such as https protocol, lock symbol, W3C compliance Integration of feature to log complaints/grievances and provide feedback
2	Sanction of Building Plan	BPAS Website i.e. https://bpas.bb mpgov.in/BPAM SClient4/Default .aspx	 Web site content should also be available in Kannada Provision of search feature for website content Web site should be in Top 5 results of search engine

Table 2 BBMP e-service delivery - Focus areas

SI.	BBMP	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
3	Tree Feeling & Transit Permission	Department Website i.e. <u>http://bbmp.gov.i</u> <u>n/tree-cutting</u>	 Manual touch point for scrutiny of the drawing plan and site inspection should be rationalised Provision for users to make personal login profiles OTP authentication feature could be integrated Integration of feature to log complaints/grievances and provide feedback Offline provision for application submission could be removed
4	Right of Way permission for new electricity connection	Department Website i.e. <u>http://bbmp.gov.i</u> <u>n/road-cutting</u>	 Web site content should also be available in Kannada Manual touch point of physical inspection and scrutiny by department officials should be rationalised Integration of information security features such as https protocol, lock symbol, W3C compliance Integration of feature to log complaints/grievances and provide feedback
5	Khata registration	SAKALA website i.e. http://www.sakal a.kar.nic.in/online /bbmp/registratio n.aspx	 Web site link should be given at department web site Manual touch point for inspection of the site location should be rationalised A dedicated link should be integrated for subjects pertaining to payment for service

SI.	BBMP	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
6	Building completion certificate	lt's not a stand- alone service but a mandatory	 Provision for online payment to be integrated currently, only payment through Bangalore One center is accepted NA
		document obtained offline required to apply for Occupancy Certificate	
7	To obtain occupancy certificate	BPAS Website i.e. https://bpas.bbm pgov.in/BPAMSC lient4/Default.asp	 Web site content should also be available in Kannada Provision of search feature for website content
9	To obtain Commencement Certificate for beginning the construction work in respect of cases where Building plan approval is already obtained ⁵ Building plan approval for Sites and Civic Amenities Sites in BDA Layouts and BDA approved private layouts not handed over to BBMP yet	X BPAS Website i.e. https://bpas.bbm pgov.in/BPAMSC lient4/Default.asp X BPAS Website i.e. https://bpas.bbm pgov.in/BPAMSC lient4/Default.asp X	 Web site should be in Top 5 results of search engine Manual touch point for scrutiny of the drawing plan and site inspection should be rationalised Integration of feature to log complaints/grievances and provide feedback

⁵CC and BP Approval in Bangalore since 2017 is being offered by BBMP and not BDA Karnataka Evaluation Authority | Page 34

SI.	BBMP	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
11	Obtaining	BPAS Website i.e.	
	Commencement	https://bpas.bbm	
	Certificate for the land,	pgov.in/BPAMSC lient4/Default.asp	
	where Change of land	<u>X</u>	
	use is already		
	approved, as per		
	section 14a(3) of KTCP		
	Act 1961		

Overall average score for all above BBMP services is depicted in figure below, major areas of improvement for these services is identified as Content availability, Information security and privacy and Status request and tracking. Below improvement features in these areas would further enhance the transparency, better user experience and reduce service delivery discrepancies. Recommended features are tabulated as below with its significance below.

Figure 8 Integrated NeSDA score for BBMP

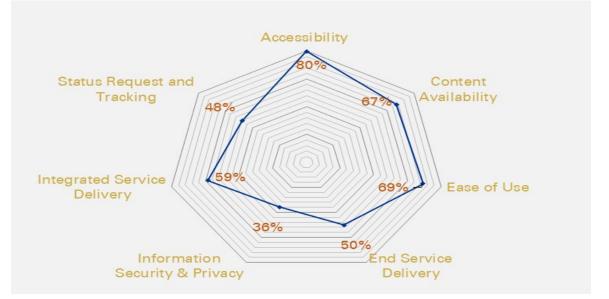


Figure 9 Recommendations for BBMP portal				
Parameters	Improvement Areas	Recommendations & Significance		
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature feature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to relevant and useful information enables better user experience and improves transparency 		
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for user identifications Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage 		
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback and track status of complaints Provide dedicated webpage for subjects related to payment for services 	 Leverage MeitY Digital service standard to adopt practices for end to end status tracking with unique identifiers Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government 		

Figure 9 Recommendations for BBMP portal

Applicant data analysed for the evaluation period illustrates that most utilised service for the departments is trade license and lowest approval rate is observed for Khata registration. Primary rejection reasons are tabulated as below.

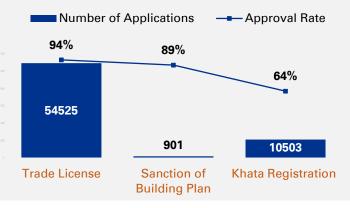
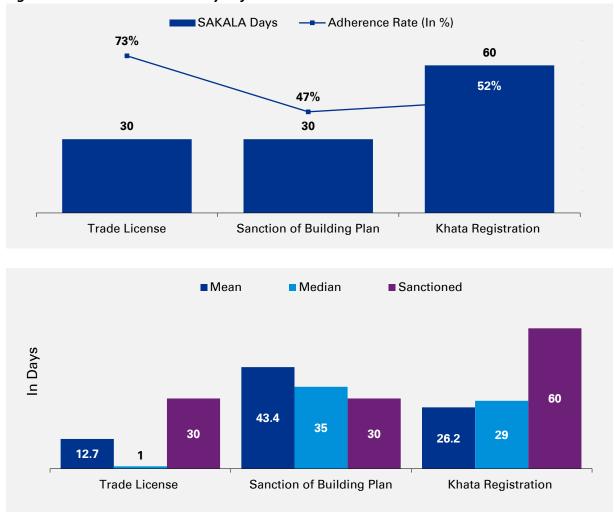


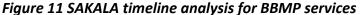
Figure 10 Applications for BBMP services 19-20 Source SAKALA DPAR, Government of Karnataka (GoK)

Adherence to SAKALA timeline was observed among lowest for the Building plan sanction and highest for trade license.

Table 3 Rejection reasons	for BBMP services
---------------------------	-------------------

For Trade License	For Sanction of Building Plan	For Khata Registration
Lack of sufficient supporting	Supporting	Lack of supporting
documents like bank challan,	documents submitted	documents such as tax
allotment letter, building plan	non-compliant such	payments, invalid Aadhar
copy, Vendor MOU, lease	as incorrect	signature
agreement errors	drawings, stamp	Duplicate applications by
Noncompliance to rules,	papers etc.	applicants
regulations and violations	 Nonpayment of 	 Objections raised by third
such as building laws	application fees	party approval
violation	Site location non-	Change in authority of
Submission done to wrong	compliant with	response from BDA to BBMP
jurisdiction	comprehensive	Mis matched information by
Misinformation in applicant	development plan or	applicant and disputed
information	located in	property
Court case or complaints from	environmental buffer	Applicant failed to submit
residents	zones	original documents NOC,
Uploaded documents not		conversion order, death
legible and duplication		certificate, conversion order
Rejections during inspection		Litigation cases and
due to noncompliance to fire		nonpayment of
& safety norms, waste		improvement fees
management measures etc.		Khata not recorded
Allotment to nonresidential		correctly, registered in other
area		records





Sanctioned SAKALA time is observed to be overshot very frequently for Sanctioning of Building Plan. For Sanction of building plan having lowest adherence rate at 47%, interaction with department officials revealed that primary reasons for such instances is lack of submission of supporting documents by applicants. Such interactions also revealed that offline submission of documents is still prevalent and update to users are provided intermittently i.e. on case to case basis.

For occupancy certificate and commencement certificate only, partial data was made available by the department. Adherence to SAKALA timeline was observed among lowest for all the services across any department. Interaction with department officials revealed Karnataka Evaluation Authority | Page 38 that primary reasons for such delays were due to noncompliance of inspections observations by applicants.

Central tendency measurement for the applications processed indicates that for occupancy certificate issuance department takes more than 27x, for commencement certificate issuance more than 9x of the sanctioned time.

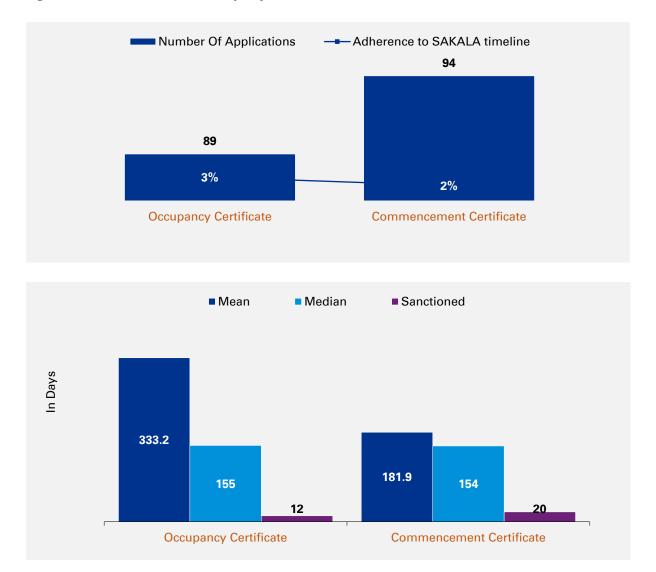


Figure 12 SAKALA timeline analysis for BBMP services

<u>Note</u>: Partial data for four zones out of 10 BBMP zones were made available for occupancy certificate and commencement certificate. As per the comments received from department Completion certificate is not a standalone service but an application form for obtaining Occupancy certificate. Applicant data for tree felling, right of way, were not made available by concerned department for analysis.

Summary of facts and figures across all services of BBMP

Service	Applications	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA
					timeline
					(in days)
Trade	54525	94%	73%	60%	12.7
License	54525	3470	1370	0078	12.7
Sanction					
of Building	901	89%	47%	67%	43.4
Plan					
Tree					
Felling &	10503	64%	52%	47%	
Transit	10505				
Permission					

Table 4 Summary of figures across all services of BBMP

3.2. Bangalore Development Authority (BDA)

There are four services under the study scope for the department. However, as per the department, the services such as building plan approval, commencement certificate where change of land use is already approved, and commencement certificate where building plan is already approved are being offered via BBMP. Therefore, only the service – obtaining possession certificate – was evaluated. Key inferences from NeSDA assessment and applicant data analysis for the service is as below.

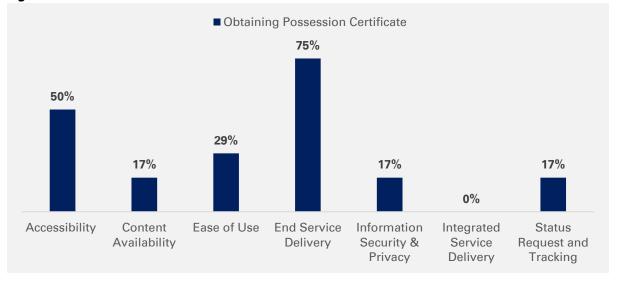


Figure 13 BDA services: NeSDA score

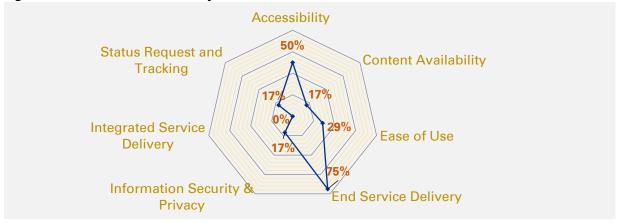
Figure above graphically depicts the NeSDA assessment scores for the aforementioned service of BDA. Major improvement areas for these services are listed as below.

SI. **BDA** Mode of Improvement Areas for each of the No. Service Delivery services SAKALA • Explicit information on BDA department website about 1 Obtaining Possession Website i.e. the service should be made available certificate http://www.sakala.k • Web site to be in Top 5 results of search engine ar.nic.in/sakalaonli Help manuals and how to guide should be made ne/OnlineServices. aspx?Dep_Code=B available for the users D OTP authentication feature should be integrated

Table 5 BDA e-service delivery - Improvement areas

Integration of information security features such as
https protocol, lock symbol, W3C compliance
Integration of feature to log complaints/grievances and
provide feedback

Figure 14 Overall NeSDA Score for BDA

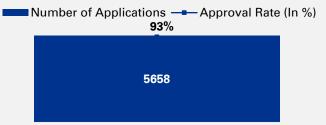


As seen from figure above, apart from Accessibility and End Service Delivery all other assessment parameters require major improvement in areas such as Content availability, Ease of Use, Information security and privacy, Integrated Service Delivery and Status request and tracking.

Parameters	Improvement Areas	Recommendations & Significance
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better use experience and improves transparency
Ease of Use	 Website search engine results should be available in Top 5 results Integration of features such as how to guides, search feature for website 	 It is a significant parameter that influences the ambit of e-service quality measurement and aids in reducing digital divide by providing better accessibility of the e-Government services
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Integrated service delivery	 Providing secure payment gateway to users with provision of multiple payment options Inter dependent service should allow for auto population of common data 	 Leverage MeitY India Enterprise Architecture guidelines for better interoperability Increases the coordination between governmen agencies with reduced costs and provides a transparent payment mechanism
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	 Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Figure 15 Recommendations for BDA portal

Applicant data analysed for the evaluation period reveals an approval rate of 93% with primary rejections tabulated below.

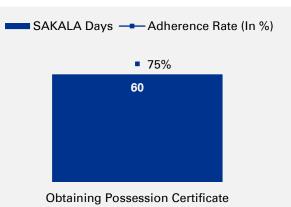


Obtaining Possession Certificate **Figure 16 Applications for BDA Service 19-20** Source: SAKALA DPAR, GoK

Table 6 Rejection reasons for BDA

For Obtaining Possession Certificate		
Selection of wrong jurisdiction		
Submission of incorrect document submission		
 Original Lease cum sales agreement (LCSA) not submitted 		
Duplicate applications		
Karnataka Evaluation	Authority	Pag

Adherence rate for SAKALA timeline was found to be 75%, interactions with department officials revealed that lack of due diligence while submission of application by applicants was primary reasons for delays. Central tendency measurement for the applications processed indicates sanctioned days could be reduced to 30 days.







Department officials' interactions revealed that offline submission of documents is still prevalent and update to users are provided intermittently i.e. on case to case basis.

Summary of facts and figures across all services of BDA

Service	Applications	Approval Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
Obtaining					
Possession	5658	93%	75%	31%	20.4
Certificate					

Table 7 Summary of figures across all services of BDA

3.3. Department of Legal Metrology

There is one service under the study scope for the department namely issue of new license to manufacturer/dealer/repairer possession certificate, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

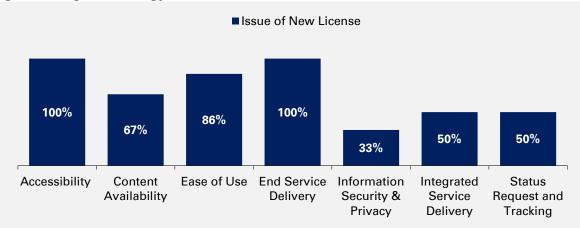


Figure 18 Legal metrology services NeSDA score

Figure above graphically depicts the NeSDA assessment scores for the service for Legal Metrology (detailed score in Annexure). Major improvement areas for these services are listed as below.

SI.	Legal	Mode of	Focus Areas for each of the
No.	Metrology	Delivery	services
	Service		
1	Issue of New	Emapan	Integration of information security features such as
	License to	Website i.e.	W3C compliance
	Manufacturer		Payment gateway could be integrated for the
	/Dealer/	<u>apan.karnataka.</u> gov.in/	payment of service fees
	Repairer	<u>goviii.</u>	• Integration of feature to log complaints/grievances
			and provide feedback
			Integrate features to provide users of status
			change/update for their applications

Table 8 Legal metrology e-service delivery - Focus areas

•	Manual intervention in form of site inspection by
	officials should be rationalised

As seen from figure below, major improvement in areas such as Content availability, Information security and privacy, Integrated Service Delivery and Status request and tracking.

Figure 19 Integrated NeSDA score for Legal Metrology

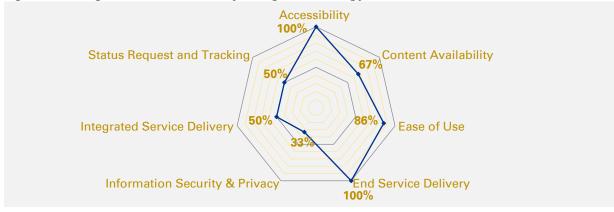


Figure 20 Recommendations for Legal Metrology portal

Parameters	Improvement Areas	Recommendations & Significance
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Integrated service delivery	 Providing secure payment gateway to users with provision of multiple payment options Inter dependent service should allow for auto population of common data 	 Leverage MeitY India Enterprise Architecture guidelines for better interoperability Increases the coordination between government agencies with reduced costs and provides a transparent payment mechanism
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Applicant data analysed for the evaluation period reveals a remarkably low approval rate of 53% with primary rejections tabulated below.

For Issue of New License

- Applicant not having required qualification
- Submission to incorrect jurisdiction
- Lack of submission of required documents and non-payment of fees
- Failure to submit original documents by applicants

Figure 21 Applications for legal metrology, Source SAKALA DPAR, GoK



Adherence rate for SAKALA timeline was found to be 45%, interactions with department officials revealed that lack of due diligence, lack of submitting supporting documents and inspection were primary reasons for delays. Central tendency measurement for the applications processed indicates department takes on average require 30% more than the sanctioned time.

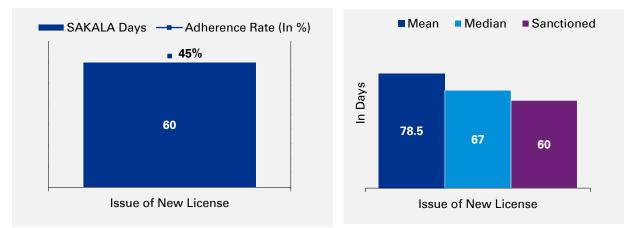


Figure 22 SAKALA timeline analysis for Legal Metrology services

Department officials' interactions also revealed that offline submission of supporting documents is still prevalent however update to users are provided instantly through emapan website.

Summary of facts and figures across all services of Department of Legal Metrology

Service	Applicants	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA
					timeline
					(in days)
Issue of					
New	251	53%	45%	73%	78.5
License					

Table 9 Summary of figures across all services of Legal Metrology department

3.4. Drug Control Department

There are two service under the study scope for the department namely grant of fresh drug manufacturing license and retail license for sales establishment, key inferences from NeSDA assessment and applicant data analysis for the service is as below.



Figure 23 NeSDA scores for Drug Control department services

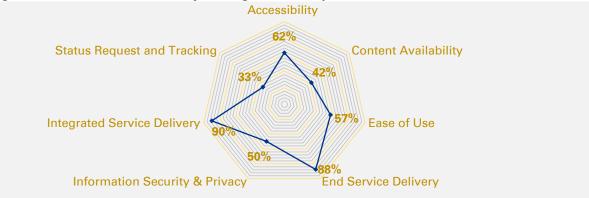
Figure above graphically depicts the NeSDA assessment scores for the service for Drug Control (detailed score in Annexure). Major improvement areas for these services are listed as below.

SI.	Drug Control	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
1	Grant of Fresh Drug	NIC Website	 Explicit information on Drug Control department website about the service should be made available
	Manufacturing License	https://dcd.kar. nic.in/idmla/	 Registration link must be made accessible to users in a conventional way
			Web site content should be available in KannadaWeb site results to be in top 5 of search engine

 Table 10 Drug Control e-service delivery - Improvement areas

SI.	Drug Control	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
			 To remove manual touch point at registration stage of obtaining case worker approval Integration of information security features such as W3C compliance Integration of feature to log complaints/grievances and provide feedback
2	Retail License for Sales Establishment	Department Website <u>http://drugs.ka</u> <u>r.nic.in/index.h</u> <u>tml#block-</u> <u>menu-menu-</u> <u>topmenu</u>	 Web site content should also be available in Kannada Integration of information security features such as https protocol, lock symbol, W3C compliance Integration of feature to log complaints/grievances and provide feedback

Figure 24 Overall NeSDA score for Drug Control department



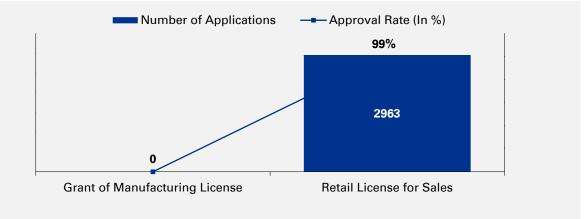
As seen from figure above, improvement areas are Accessibility, Content availability, Ease of use, Information security and privacy, and Status request and tracking.

Figure 23 Recommendations for Drug Control department portai					
Parameters	Improvement Areas	Recommendations & Significance			
Accessibility	 Ensuring website content also in local language Ensuring dedicated section on help manual/checklist and information on nodal officer 	 Adoption of MeitY GIGW standards for e- Governance. Placement of GIGW logo or W3C logo on websites Enables reach and coverage for the e-services 			
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency 			
Ease of Use	 Website search engine results should be available in Top 5 results Integration of features such as how to guides, search feature for website 	 Influences the ambit of e-service quality measurement and aids in reducing digital divide by providing better accessibility of the e-Government services 			
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage 			
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government			

Figure 25 Recommendations for Drug Control department portal

Applicant data analysed for the evaluation period reveals a high approval rate of 99% for the retail license and there were no applicants in time period for grant of manufacturing license.





Adherence rate for SAKALA timeline was found to be 72%, interactions with department officials revealed that lack of due diligence by applicants and inspections clarifications were primary reasons for delays. Supporting documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department takes on average require 30% more than the sanctioned time.

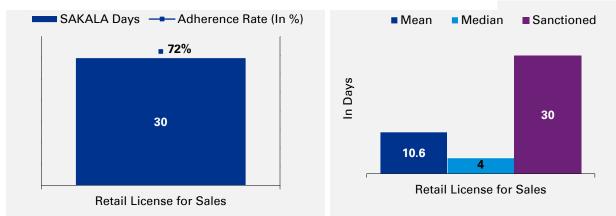


Figure 27 SAKALA timeline analysis Drug Control department services

Summary of facts and figures across all services of Drug Control Department

Service	Applicants	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA timeline (in days)
Retail License for Sale	2963	99%	72%	70%	10.6

Table 11 Summary of figures across all services of Drug Control department

3.5. Department of Factories, Boilers, Industrial Safety & Health

There are a total of five service under the study scope for the department namely approval of factory building plan, registration of factories, approval of boiler, registration of boilers, certificate for recognition as boiler/component manufacturer, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Approval of boiler and certificate for recognition as boiler/component manufacturer are both offline services to be applied through Director of Factories and payment for these are made through Khajane 2. NeSDA assessment scores depicted below for these services.

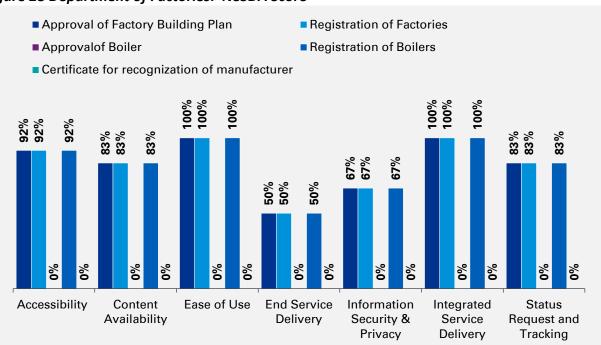


Figure 28 Department of Factories: NeSDA Score

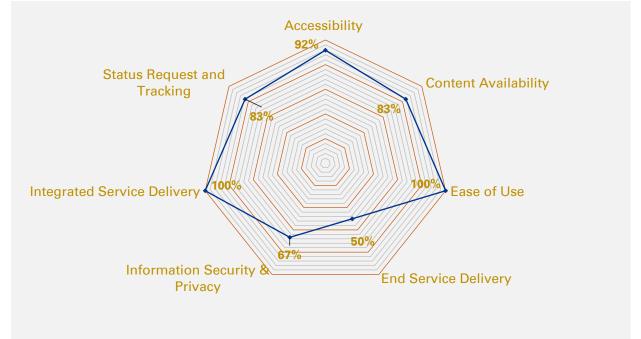
Figure above graphically depicts the NeSDA assessment scores for the service for Department of Factories (detailed score in Annexure). Major improvement areas for these services are listed as below.

SI.	Department of	Mode of	Focus areas for each of the
No.	Factories	Delivery	services
1	Approval of Factory Building plan	Department Website <u>http://164.100.13</u> <u>3.11:9080/FBIS/o</u> <u>nlineSurakshath</u> <u>e.jsp</u>	 Provision of making payments offline as well could be removed and made to accept only online mode of payments Feature for users to be intimated by SMS/email alerts for change of status in application Provision for users to be verified with a two-factor authentication should be integrated
2	Registration of Factories and Issue of license	Department Website <u>http://164.100.13</u> <u>3.11:9080/FBIS/o</u> <u>nlineSurakshath</u> <u>e.jsp</u>	 Provision of making payments offline as well could be removed and made to accept only online mode of payments Feature for users to be intimated by SMS/email alerts for change of status in application Provision for users to be verified with a two-factor authentication should be integrated
3	Approval of Boiler and Pressure part Manufacturing drawing/Steam pipeline	Offline Service delivered through office of Director of Factories	Service should be made online and should be compliant to suggestions made in recommendations section of this report
4	Registration of Boilers, Economisers and Steam Pipelines and pipeline layout drawings	Department Website <u>http://164.100.13</u> <u>3.11:9080/FBIS/o</u> <u>nlineSurakshath</u> <u>e.jsp</u>	 Provision of making payments offline as well could be removed and made to accept only online mode of payments Feature for users to be intimated by SMS/email alerts for change of status in application Provision for users to be verified with a two-factor authentication should be integrated

 Table 12 Department of Factories e-service delivery - Focus areas

SI.	Department of	Mode of	Focus areas for each of the
No.	Factories	Delivery	services
5	Certificate for	Offline Service	Service should be made online and should be
	recognition as	delivered	compliant to suggestions made in
	Boiler / Boiler	through office of	recommendations section of this report
	Component	Director of	
	manufacturer	Factories	
	and renewal		





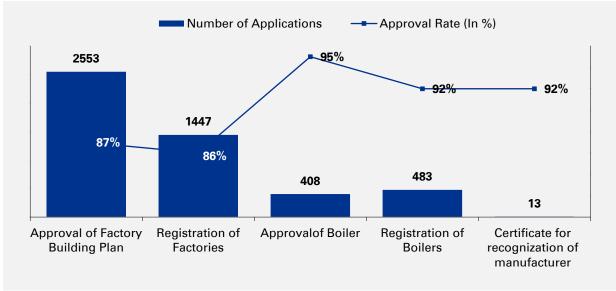
As seen from figure above, improvement areas are End Service Delivery and Information security and privacy.

Parameters	Improvement Areas	Recommendations & Significance			
End Service Delivery	 Provisions for making offline payments could be removed to accept only online payment mode Manual effort to obtain the service should be removed 	 Integration and limitation to online payments leads to transparency and consistency in service delivery Manual processes should be eliminated in service delivery 			
Information Security & Privacy	 Integration of online security measures such as two factor authentication Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage 			

Figure 30 Recommendations for Department of Factories portal

Applicant data analysed for the evaluation period reveals a consistently high approval rate across services and an overall approval rate of 88% for the department.

Figure 31 Applications for Department of Factories, Source SAKALA DPAR, GoK



For Approval of Factory Plan	For Registration of Factories	For Approval of Boilers
 Non submission of supporting documents such as agreement copy, onsite emergency copy, drawings and write up, land conversion document, Form 1A, within the stipulated time Submission with incomplete address and with incomplete information Submission of non-legible documents Building plan not approved Nonpayment of application fees Non submission of onsite emergency plan and noncompliance to inspection observations 	 Non submission of revised document like plan layout, drawings etc. Submission to wrong jurisdiction Non approval of building plan Construction in progress Submission of application with incorrect information and non-legible information Non submission of supporting documents such as land conversion, Form 12, rent deed, building and machinery layout plan etc. Nonpayment of application fees Noncompliance to factories act and inspection observations 	 Non submission of supporting documents Missing mandatory information such as pressure and temperature data Incorrect calculation values for pressure and temperature
For Registration of Boilers	For Certificate for Boiler Manufa	cturing
 Non submission of supporting documents Test certificate not in order Noncompliance to departments observations Failure to submit original documents by applicants 	Nonpayment of application fea	es

Primary reasons observed for rejections are tabulated as below for each of the services.

Adherence rate for SAKALA timeline was found to be in range of 70 to 77% for all services, interactions with department officials revealed that lack of supporting documents and due diligence by applicants were primary reasons for delays. Services delivered by Karnataka Evaluation Authority | Page 57

departments still had manual interventions and offline interactions. Supporting documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department processes most of the application within the sanctioned time.

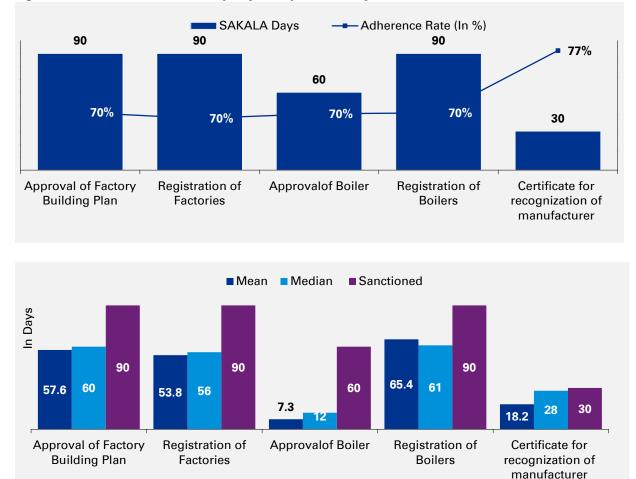


Figure 32 SAKALA timeline analysis for Department of Factories services

Summary of facts and figures across all services of Department of Factories, Boilers, Industrial Safety and Health

Service	Applicants	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA
					timeline
					(in days)
Approval of					
Factory	2553	87%	70%	84%	57.59
Building	2000	07 /0	70 %	04 /0	57.55
Plan					
Registration					
of Factories	1447	86%	70%	84%	53.82
and Issue of	1447	00%	70%	0470	55.62
license					
Approval of					
Boiler	408	95%	70%	0	7.26
Registration					
of Boilers	483	92%	70%	84%	65.36
Certificate					
for	10	0.29/	0 / ۲	0	10.15
recognition	13	92%	77%	0	18.15
as Boiler					

Table 13 Summary of figures across all services of Department of Factories

3.6. Labour Department

There are a total of six services under the study scope for the Labour department namely registration under shops and establishment act, registration of principal employer, license to the contractor, registration of establishment, registration of building and other construction workers, registration inter-state migration worker (ISMW) act, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

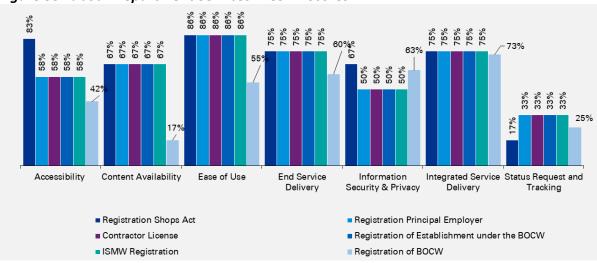


Figure 33 Labour Department Services: NeSDA scores

Figure above graphically depicts the NeSDA assessment scores for the service for Labour Department (detailed score in Annexure). Major improvement areas for these services are listed as below.

SI.	Labour Department	Mode of	Improvement Areas for each of the
No.	Services	Delivery	services
1	Registration under	ekarmika	Integration of feature to log
	the Karnataka	website	complaints/grievances and provide feedback
	Shops and	http://164.100.13 3.176/ekarmika/s	Integration of information security features
	Commercial	tatic/home.aspx	such as https protocol, lock symbol, W3C
			compliance

SI.	Labour Department	Mode of	Improvement Areas for each of the
No.	Services	Delivery	services
	Establishments Act, 1961	_	Integration of a payments gateway
2	Registration of Principal employer under Contract Labour Act	Department Website <u>https://labouronl</u> <u>ine.kar.nic.in/Pu</u> <u>blicForms/Forml</u> <u>Registration.asp</u> <u>X</u>	 Web site content should be available in Kannada Provision for users to create personal login profiles Integration of security features such as two fortune authorities.
3	License to the contractor under the Contract Labour Act,1970 Registration of Establishment under the BOCW	Department Website <u>https://labouronl</u> <u>ine.kar.nic.in/Pu</u> <u>blicForms/Forml</u> <u>Registration.asp</u> <u>x</u> Department Website <u>https://labouronl</u> <u>ine.kar.nic.in/Pu</u>	 factor authentications Integration of feature to log complaints/grievances and provide feedback Provision for users to be notified for status change in application
5	(Regulation of employment and Conditions) Act,1996 Registration of	blicForms/Forml Registration.asp X	The service is hosted on Seva Sindhu, an
	Building and other Construction Workers	through Seva Sindhu portal https://serviceon line.gov.in/karna taka/	 Interservice is nosted on occur on did an arrivation integrated portal for G2C services, that offers Aadhar-based Single Sign On, two-factor authentication and other useful measures information security measures However, applicants do not get key department information from the portal such as contact details of key Government officials, department helpdesk/hotline, FAQs

SI.	Labour Department	Mode of	Improvement Areas for each of the
No.	Services	Delivery	services
			about the service and charters for service delivery
6	Registration ISMW Act,1979	Department Website <u>https://labouronl</u> <u>ine.kar.nic.in/Int</u> <u>erStateMigrant</u> <u>Workmen/Interst</u> <u>ateMagReg.aspx</u>	 Web site content should be available in Kannada Provision for users to make personal login profiles Integration of security features such as two factor authentications Integration of feature to log complaints/grievances and provide feedback Provision for users to be notified for status change in application

Overall average score for all above Labour department services is depicted in figure below, major areas of improvement for these services is identified as Accessibility, Content availability, Information security & privacy and Status request & tracking.





Below improvement features would further enhance the transparency, better user experience and reduce service delivery discrepancies.

Parameters	Improvement Areas	Recommendations & Significance
Accessibility	 Ensuring website content also in local language Ensuring dedicated section on help manual/checklist and information on nodal officer 	 Adoption of MeitY GIGW standards for e- Governance. Placement of GIGW logo or W3C logo on websites Enables reach and coverage for the e-services
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Information Security & Privecy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Applicant data analysed for the evaluation period illustrates that most utilised service for the departments is registration under shops and establishment act and lowest utilised being ISMW registration. Consistently high approval rate is observed for all services.

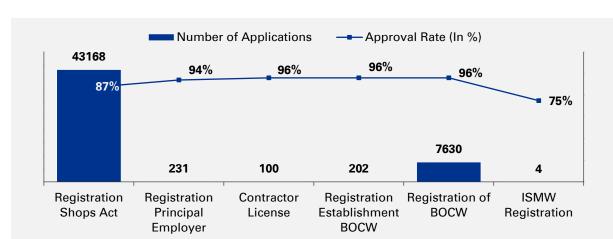
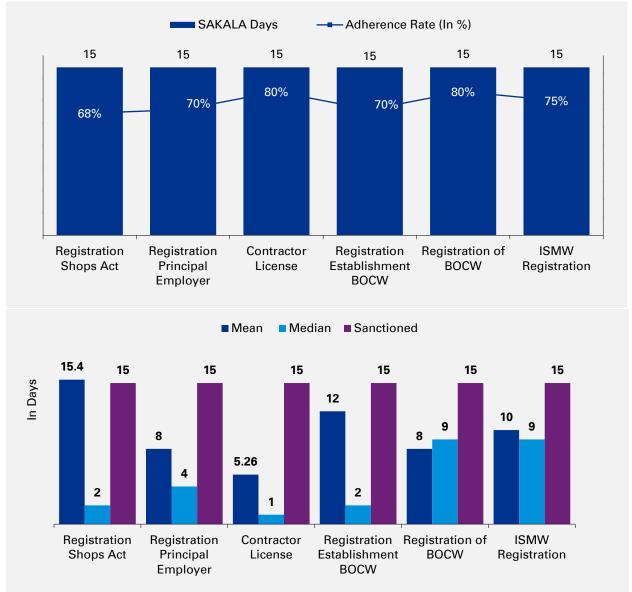


Figure 36 Applications for Labour Department, Source SAKALA DPAR, GoK

For Registration under shops	For Registration of	For Approval of Boilers		
and establishment act	Principal employer			
Submission with	Submission with	Submission with		
incomplete and	invalid documents	invalid documents		
mismatching information	Duplicate	Duplicate		
Non submission of	applications	applications		
supporting documents such				
as sales deed, rental				
agreement, Form A etc.				
Nonpayment of fees or with				
incorrect challan number				
Submission to incorrect				
jurisdiction				
Submission with non-				
legible documents				
For Registration of BOCW				
Submission of duplicate requests and in wrong jurisdiction				
Non submission of mandatory supporting documents				
Submission with incorrect and missing information				

Primary reasons observed for rejections are tabulated as below for each of the services.

Adherence rate for SAKALA timeline was found to be comparatively low at 68% for registration under shops act to rest of the services. Even for rest of the services it was in a range of 70% to 80%, interactions with department officials revealed that lack of supporting documents and due diligence by applicants were primary reasons for delays. Central tendency measurement for the applications processed indicates department processes most of the application within the sanctioned time.





Summary of facts and figures across all services of Labour Department

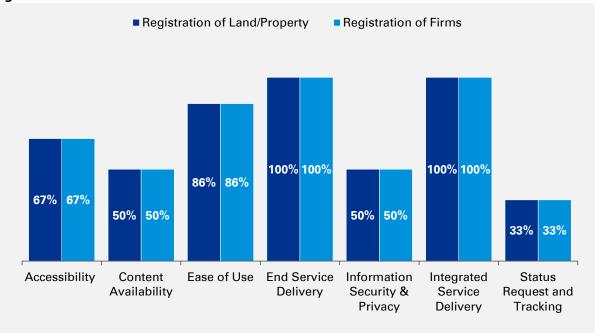
Service	Applicants	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA
					timeline (in
					days)
Registration					
under the					
Karnataka	43168	87%	68%	70%	15.36
Shops and					
Establishments					
Registration of					
Principal	231	94%	70%	63%	8.00
employer					
License to the					
contractor	100	96%	80%	63%	5.26
Registration of					
Establishment					
under the					
Building and	202	96%	70%	63%	12.00
Other					
Construction					
Workers					
Registration of					
Building and					
other	7630	96%	80%	48%	8.00
Construction					
Workers					
Registration					
Inter State		750/	759/	620/	10.00
Migration	4	75%	75%	63%	10.00
Workers					

Table 15 Summary of figures across all services of Labour Department

3.7. Inspector General of Registration and Stamps

There is a total of two services under the study scope for the Inspector General of Registration and Stamps department namely registration of land/property and registration of firms under Indian partnership act 1932, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Labour Department (detailed score in Annexure). Major improvement areas for these services are listed as below.

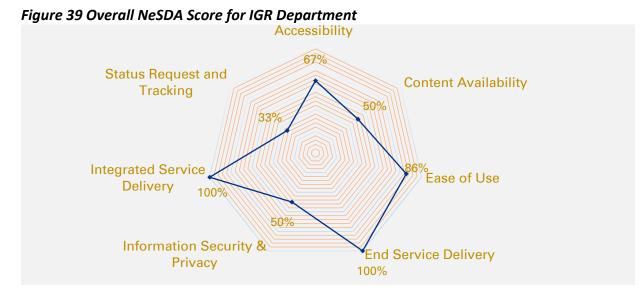




SI.	IGR	Mode of	Improvement Areas for each of the
No.	Department	Delivery	services
	Services		
2	Registration of Land/property Registration of FIRMS under Indian Partnership Act, 1932	Kaveri website https://kaveri online.karna taka.gov.in/	 To provide dedicated webpage for contact-us section and information on nodal officers responsible for provision of the service Integration of security features such as two factor authentications and W3C compliance Integration of feature to log complaints/grievances and provide feedback Provision for users to be notified for status change in application For registration of firms there is manual intervention in process flow of submitting all original documents in registrar office. This could be rationalised

 Table 16 IGR Department e-service delivery - Focus areas

Overall average score for all above IGR services is depicted in figure 39 below, major areas of improvement for these services is identified as Accessibility, Content availability, Information security & privacy and Status request & tracking.



Below improvement features (figure 40) would further enhance the transparency, better user experience and reduce service delivery discrepancies.

Parameters	Improvement Areas	Recommendations & Significance
Accessibility	 Ensuring website content also in local language Ensuring dedicated section on help manual/checklist and information on nodal officer 	 Adoption of MeitY GIGW standards for e- Governance. Placement of GIGW logo or W3C logo on websites Enables reach and coverage for the e-services
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Figure 40 Recommendations for IGR department portal

Applicant data analysed for the evaluation period illustrates that most utilised service for the departments is registration of firms (please note that data for this service is just for one day due to huge voluminous of data). For registration of firms 100% approval rate was observed.

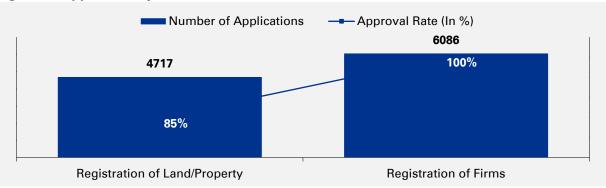
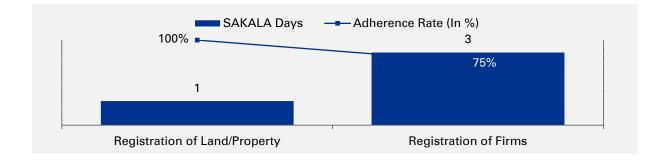


Figure 41 Applications for IGR, Source SAKALA DPAR, GoK

Primary reasons observed for rejections are tabulated as below for each of the services.

For Registration of Land/Property	For Registration of Firms
	Non submission of supporting
Non submission of supporting	documents such as rent agreement
documentsApplications withdrawn by applicant	First partnership deed not registered
	with specified office
	Submitted to wrong jurisdiction
	Nonpayment of stamp duty

Adherence rate for SAKALA timeline was found to be 100% for registration of land/property and 75% for registration of firms, interactions with department officials revealed that lack of supporting documents and procedural delays were primary reasons for delays. Services delivered by departments still had manual interventions and offline interactions such as submission of supporting documents.



Summary of facts & figures across services of Inspector General Registration & Stamps

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score
Registration of Land/property	4717	85%	100%	70%
Registration of FIRMS	6086	100%	75%	70%

Table 17 Summary of figures across all services of IGR

3.8. Revenue Department

There is one service under the study scope for the Revenue department namely conversion of agriculture land to non-agriculture purpose, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Revenue Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

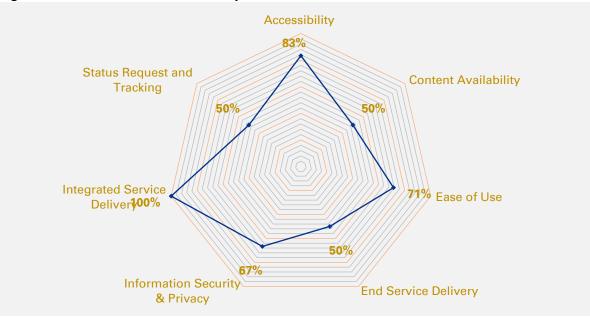


Figure 42 NeSDA score: Revenue Department services

Table 18 Revenue Department e-service delivery - Improvement areas

SI.	Revenue	Mode of	Improvement Areas for each of the
No.	Department	Delivery	services
1	Conversion of	Bhoomi	Provision for providing information on
	agriculture land to	website	checklist, procedures and timelines
	non-agriculture	https://www.lan	• To remove the manual touch point of
	purpose	drecords.karnat aka.gov.in/servic	submitting physical copy of notarized
		<u>e84</u>	affidavit to DC/Taluk case worker
			• Integration of security features such as W3C

SI.	Revenue	Mode of	Improvement Areas for each of the
No.	Department	Delivery	services
			Integration of feature to log
			complaints/grievances and provide feedback
			Provision for a dedicated web page for
			information on subject related to payment

Overall score for revenue department services as depicted above highlights major areas of improvement such as Content availability, End service delivery, Information security & privacy and Status request & tracking.

I	Figure 43 Recommendation for Revenue Department portal						
	Parameters	Improvement Areas	Recommendations & Significance				
	Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency 				
	End Service Delivery	 Provisions for making offline payments could be removed to accept only online payment mode Manual effort to obtain the service should be removed 	 Integration and limitation to online payments leads to transparency and consistency in service delivery Manual processes should be eliminated in service delivery 				
Information Security & Privacy		 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage 				
	Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government				

-- -. Fie

related to payment for services

tracking

Applicant data analysed for the evaluation period illustrates that limited number of applications were received during the study period with high rejection rate of 41%.

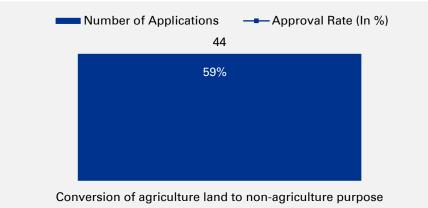
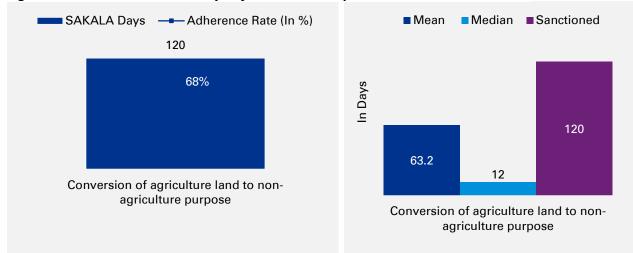


Figure 44 Applications for Revenue Department, Source SAKALA DPAR, GoK

Adherence rate for SAKALA timeline was found to be comparatively low at 68%, interactions with department officials revealed that primary reason for delay was multiple interactions involved with other department officials. Central tendency measurement for the applications processed indicates department processes most of the application within the sanctioned time.

Figure 45 SAKALA timeline analysis for Revenue Department services



Summary of facts & figures across services of Revenue Department

Service	Applicants	Approval –	SAKALA	NeSDA Score
		Rate	Adherence	
Conversion of				
agriculture land				
to non-	44	59%	68%	69%
agriculture				
purpose				

3.9. Karnataka State Pollution Control Board (KSPCB)

There is a total of ten services under the study scope for the department namely listed below:

- 1. Disposal of consent for establishment/expansion (COE) applications under water and air act green category
- 2. Consent for establishment/expansion applications under water and air act red category non-EIA (Environmental Impact Assessment)
- Disposal of consent for operations (COO/CFO) applications under water and air act for green category
- 4. Disposal of consent for operations applications under water and air act for orange category excluding infrastructure projects
- Disposal of consent for operations applications under water and air act for orange category infrastructure projects
- 6. Disposal of consent for operations applications under water and air act for red category EIA projects
- Disposal of consent for operations applications under water and air act for red category non-EIA projects
- 8. Disposal of authorisation applications under hazardous and other waste green category
- 9. Disposal of authorisation applications under hazardous and other waste orange category
- 10. Disposal of authorisation applications under hazardous and other waste red category

Key inferences from NeSDA assessment and applicant data analysis for the service is as summarised below. Figure below graphically depicts the NeSDA assessment scores for the service for KSPCB (detailed score in Annexure). Major improvement areas for these services are listed as tabulated in table 20.

Figure 46 Integrated NeSDA score: KSPCB

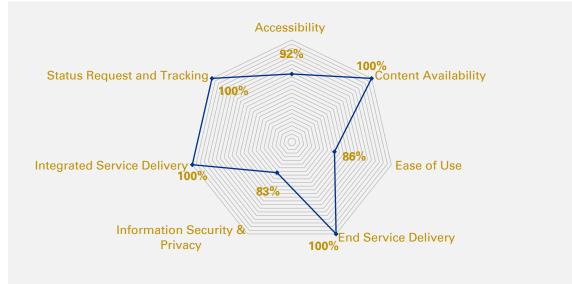


Table 20 KSPCB Department e-service delivery - Focus areas

SI.	KSPCB Department	Mode of	Improvement Areas for each of the
No.	Services	Delivery	services
1	For all consent	XGN	Web site content should be available in
	applications for	website	Kannada
	establishment/	http://kspcb.gov.	Integration of information security features
	expansion/	in/XGN.html	such as W3C compliance
	operation across		
	all categories		

Major areas of improvement for these services is identified as Ease of use & Information security and privacy.

Figure 47 Recommendations for KSPCB portal

(Parameters	Improvement Areas	Recommendations & Significance
	Ease of Use	 Website content should be available in local language Integration of features such as how to guides, search feature for website 	 It is a significant parameter that influences the ambit of e-service quality measurement and aids in reducing digital divide by providing better accessibility of the e-Government services
	Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage

Applicant data analysed for the evaluation period illustrates that most utilised service for the departments is COO for orange excluding infrastructure projects and COO for green category. Consistently high approval rate is observed for all services i.e. above 90% in each of the categories. Primary reason for rejection observed for applicants was non submission of supporting documents.

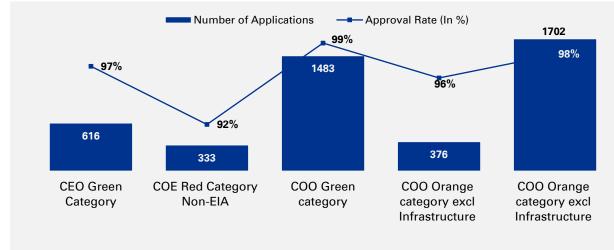
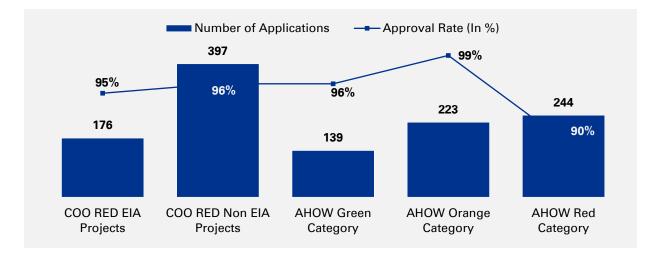


Figure 48 Applications for KSPCB Department, Source SAKALA DPAR, GoK



Adherence rate for SAKALA timeline was found to be below 50% for AHOW Red category, COE Red Non-EIA, COO Red non-EIA projects and COE Green category. Interactions with department officials revealed that lack of compliance with inspection observations and submission of supporting documents by applicants were primary reasons for delays. Compliance of SAKALA timeline in at least 75% of applications was observed only for three services i.e. AHOW green, COO green and AHOW orange category. Central tendency measurement for the applications processed confirms indicates similar trends of processing timelines for application on average exceeding sanctioned SAKALA timelines i.e. COE green, COE red non-EIA, COO Red EIA and non-EIA and AHOW Red.

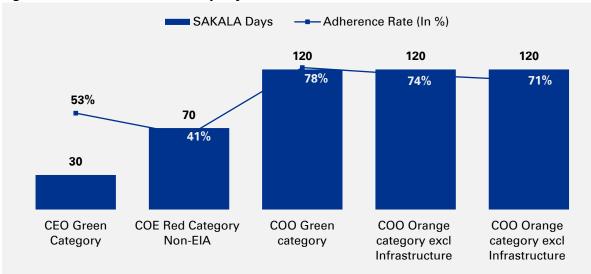
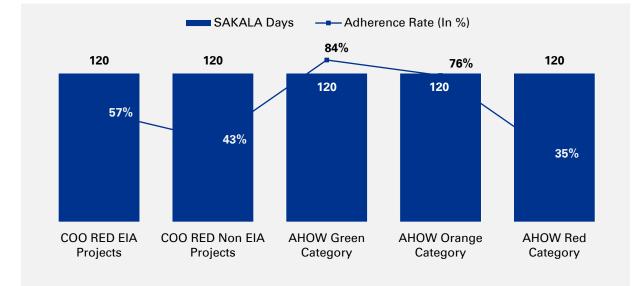
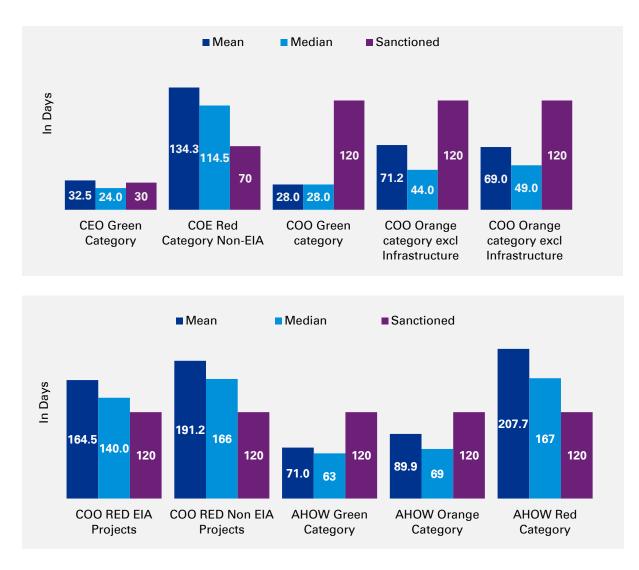


Figure 49 SAKALA timeline analysis for KSPCB services





Summary of facts and figures across all services of KSPCB

Table 21 Summary of figures across all services of KSPCB

Service	Applicants	Approva I Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
Consent for Establishment /Expansion (COE) Green	616	97%	53%	93%	32.47
COE Red Category Non-EIA (Environment al Impact Assessment)	333	92%	41%	93%	134.25
Consent for Operation (CFO) Green	1483	99%	78%	93%	28.00
CFO Orange excluding Infrastructure projects	376	96%	74%	93%	71.20
CFO Orange category Infrastructure projects	1702	98%	71%	93%	69.04
CFO Red EIA Projects	176	95%	57%	93%	164.50
CFO Red Non- EIA Projects	397	96%	43%	93%	191.20
Authorization under Hazardous and Other Waste	139	96%	84%	93%	70.96

Service	Applicants	Approva I Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
(AHOW)					
Green					
AHOW	223	99%	76%	93%	89.90
Orange	223	JJ /0	7070	3370	09.90
AHOW Red	244	90%	35%	93%	207.70

3.10. Karnataka Industrial Area Development Board (KIADB)

There is a total of two service under the study scope for the department namely land allotment and sanction of building plan (1. up to 2 acres, 2. more than 2 acres, 3. Single unit complex), key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Revenue Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

Figure 50 Integrated NeSDA score: KIADB

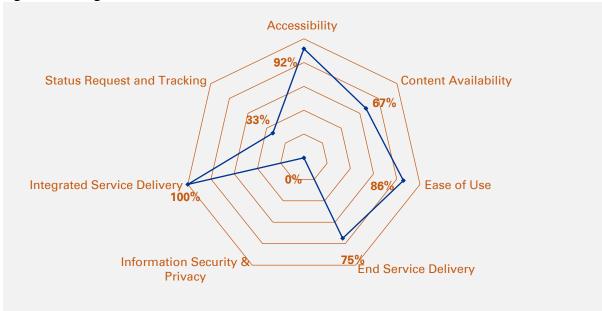


Table 22 KIADB department e-service delivery - Focus areas

SI.	KIADB Department	Mode of	Focus Areas for each of the
No.	Services	Delivery	services
1	Land Allotment	KIADB	Provision for users to make personal
	comprising following	website	login profiles
	stages:	http://109.75.172.	
	1. Intimation for payment	<u>116:8080/kiadb/p</u> ages/home.jsf	
	of initial deposit and EMD	<u></u>	

SI.	KIADB Department	Mode of	Focus Areas for each of the
No.	Services	Delivery	services
	2. Issue of Allotment		Integration of feature to log
	Letter		complaints/grievances and provide
	3. Issue of confirmatory		feedback
	letter 4. Issue of		• Provision for users to be notified for
	Possession Certificate		status change in application or
	5. Execution of Lease		periodically
	cum-sale deed		Integration of information security
2.	Sanction of building plan		features such as https protocol, lock
	1. up to 2 acres		symbol, W3C compliance
	2. more than 2 acres		• Dedicated web page with information
	3. Single Unit Complex		on service payment fee must be made
	(SUC)		available

Major areas of improvement for these services is identified as Content availability, Information security & privacy and Status request & tracking.

Figure 51 Recommendation for KIADB portai				
Parameters	Improvement Areas	Recommendations & Significance		
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage 		
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government		

Figure 51 Recommendation for KIADB portal

Above improvement features would further enhance the transparency, better user experience and reduce service delivery discrepancies.

Applicant data analysed for the evaluation period illustrates low rate of approval for land allotment process. Only 25% of the applications received by KIADB are processed to the second stage of issuing of allotment letter. Overall approval rate for land allotment is one of the lowest across department at 31.4%. Even for sanction of building plan, approval rate observed was low across categories overall approval rate being 42.25% with approval for BP over 2 acres being just 21%.

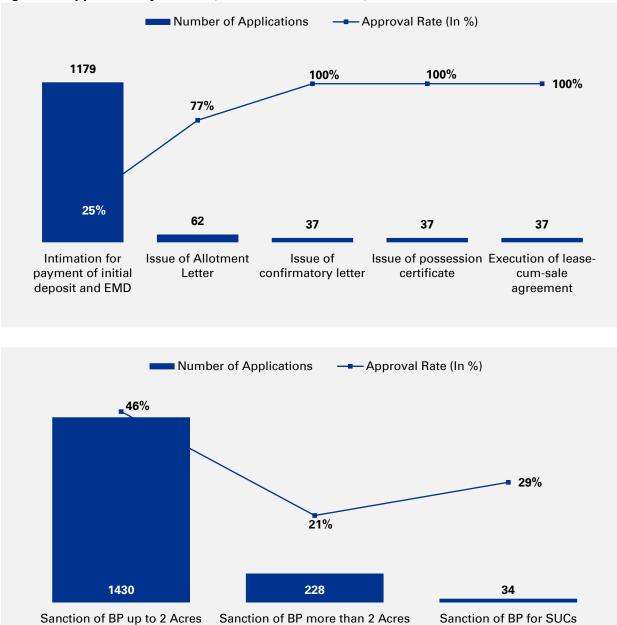


Figure 52 Applications for KIADB, Source SAKALA DPAR, GoK

Primary reasons for rejections for each of the service observed are as below:

For Intimation of EMD		For Issue of Allotment letter		
 Non submission of support documents Duplicate requests by appli Approvals not issued by con authority 	icants ompetent	 Non submission of supporting documents Plots not vacant for allotment Duplicate requests by applicants 		
For Sanction of BP up to 2 acres	For Sanction than 2 across	on of BP more	For Sanction of BP for SUC	
 Amalgamation found not to be in order Project implementation time period expired Non-compliant drawing Plan Non submission of supporting documents Duplicate requests by applicants Nonpayment of service fees 	 Amalgamation found not to be in order Project implementation time period expired Non-compliant drawing Plan Non submission of supporting documents Duplicate requests by applicants Nonpayment of service fees 		time period expired	

Adherence rate for SAKALA timeline was found to be below 33.5% for the land allotment and 36.9% for BP approval across categories. Interactions with department officials revealed that lack of due diligence by applicants and inspections clarifications were primary reasons for delays. Supporting documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department on average requires more than 7x of the sanctioned time for land allotment and 16x of the sanctioned time for BP approval.

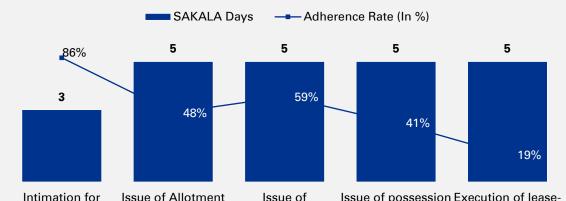
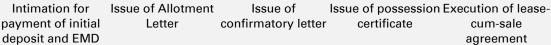
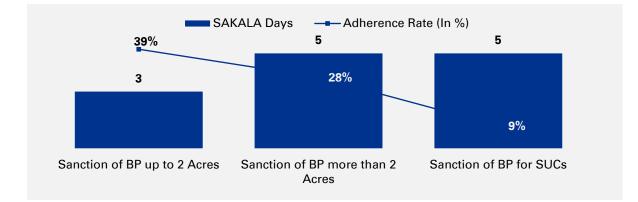
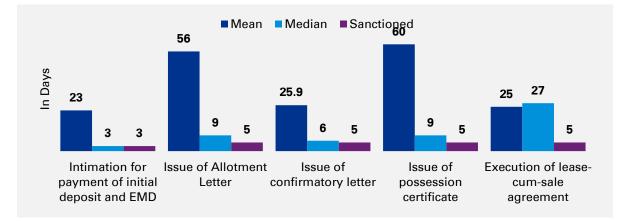
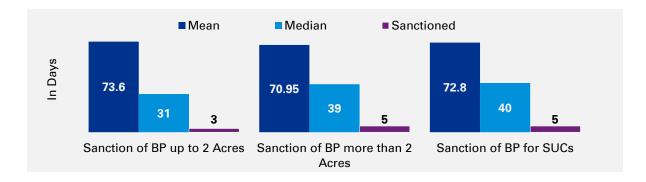


Figure 53 SAKALA time-line analysis for KIADB services









Summary of facts & figures across services of KIADB

Table 23 Summary of figures across all services of KIADB

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score
Land Allotment	1352	80%	51%	67%
Sanction of building plan	1692	32%	25%	67%

3.11. Karnataka State Fire and Emergency Service Department

There are two service under the study scope for the department namely NOC for high rise building and Clearance certificate for high rise building, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Fire Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

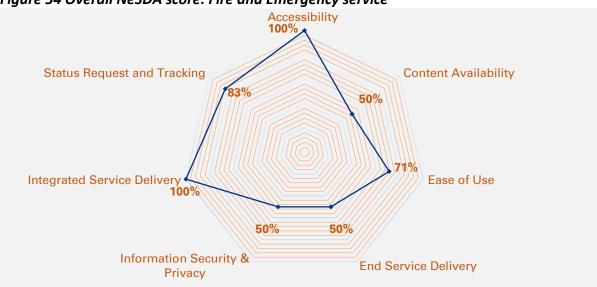


Figure 54 Overall NeSDA score: Fire and Emergency service

Table 24 Fire department e-service delivery - Improvement areas

SI.	Fire Department	Mode of	Improvement Areas for each of the
No.	Services	Delivery	services
1	NOC for High rise building	Fire Department website	Integration of information security features such as W3C compliance
2.	Clearance certificate for high rise building	https://karunadu. karnataka.gov.in/ ksfes/pages/hom e.aspx	 Manual touch point in form of inspection of premises should be rationalised Integration of feature to log complaints/grievances and feedback Web site should be in Top 5 results of search engine

Major areas of improvement for these services is identified as Content availability, Ease of Use, End service delivery and Information security and privacy. Below suggested improvement features in these areas would further enhance the transparency, better user experience and reduce service delivery discrepancies.

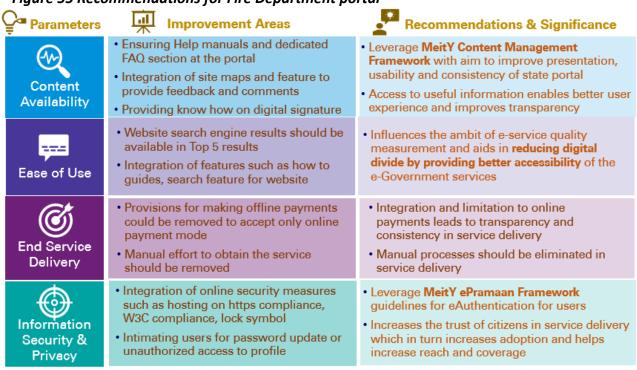


Figure 55 Recommendations for Fire Department portal

Applicant data analysed for the evaluation period illustrates 100% high approval rate for the applicants and 79% for the NOC high rise applicants. Primary reasons for rejections was observed to be incorrect information provided (such as wrong address, construction ongoing etc.) and noncompliance with inspection observations.

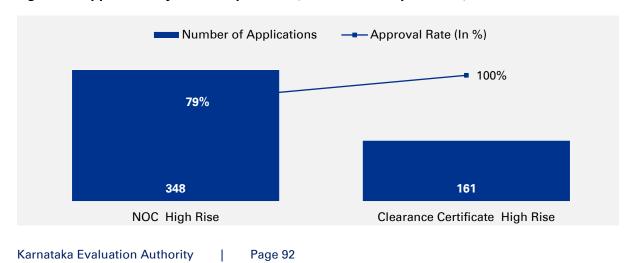


Figure 56 Applications for Fire Department, Source Fire Department, GoK

Adherence rate for SAKALA timeline was found to be among the lowest across departments for clearance certificate high rise it was as low as 2% and for NOC high rise it was below 40%. Interactions with department officials revealed that inspection noncompliance by applicants and multiple interaction with other line departments were primary reasons for these delays. Services delivered by departments still had manual interventions and offline interactions. Such interactions also revealed that supporting documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department on average requires more than 2x of the sanctioned time for NOC for high rise and nearly 4x of the sanctioned time for clearance certificate for high rise.

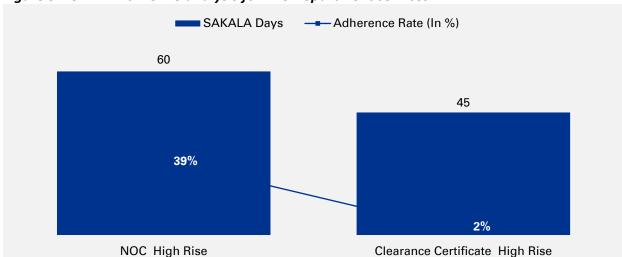


Figure 57 SAKALA timeline analysis for Fire Department services



Summary of facts & figures across services of Karnataka State Fire and Emergency Services Department

Table 25 Summary of figures across all services of Fire Department services

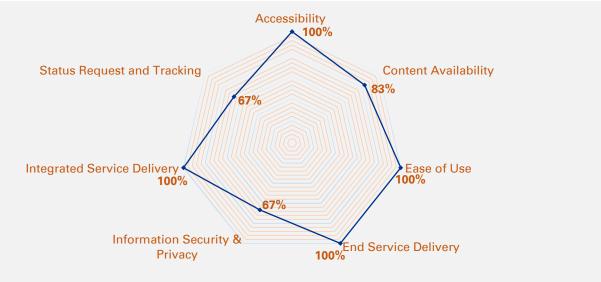
Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
NOCs for high-rise buildings	348	79%	39%	76%	123.00
Clearance certificate	161	100%	2%	76%	178.45

3.12. BESCOM

There is one service under the study scope for the department namely application for additional load/new connection – up to 7.5 KW for LT2 and LT3 new connection, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for BESCOM Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

Figure 58 Integrated NeSDA score: BESCOM



SI.	BESCOM	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
1	Application for Additional Load/ New Connection - FTNC up to 7.5 KW for LT2 and LT3 for new connection	Department website <u>https://onlineserv</u> <u>ices.bescom.org/</u>	 Provision for users to be verified with a two-factor authentication should be integrated Feature for users to be intimated by SMS/email alerts for change of status in application Integration of dedicated webpage for subjects pertaining to online payments

Table 26 BESCOM e-service delivery - Focus areas

Overall average score for BESCOM department services depicted above, reveals major areas of improvement i.e. Information security & privacy and Status request & tracking.

Figure 59 Recommendations for BESCOM portal

Parameters	Improvement Areas	Recommendations & Significance
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Applicant data analysed for the evaluation period illustrates approval rate for the service is 79% and the most prominent reason for rejection is tabulated below.

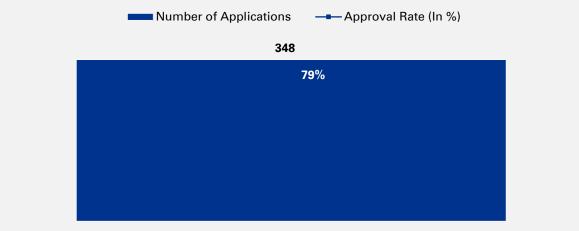


Figure 60 Applications for BESCOM, Source SAKALA DPAR, GoK

Application for Additional Load/New Connection- LT2 & LT3

For Application for Additional Load/New Connection – up to 7.5 KW LT2 & LT3

- Mis match of information submitted by applicants such as address, construction stage, bore size to build up area ration etc.
- Rejection due to nonpayment of applicant fees, non-submission of supporting such as building photo, NOCs from other department, inspection reports, occupancy certificate, clearance certificate etc.
- Noncompliance in construction of rainwater harvesting, sewage treatment plant etc.
- Submission of duplicate requests
- Submission of applications in wrong jurisdiction

Adherence rate for SAKALA timeline was found to be 67%, interactions with department officials revealed that lack of supporting documents and due diligence by applicants were primary reasons for delays. Service delivery for applicants required offline interactions in form of submission of supporting documents. Central tendency measurement for the applications processed indicates on average department required more than 4x of the sanctioned time for applications to be processed.

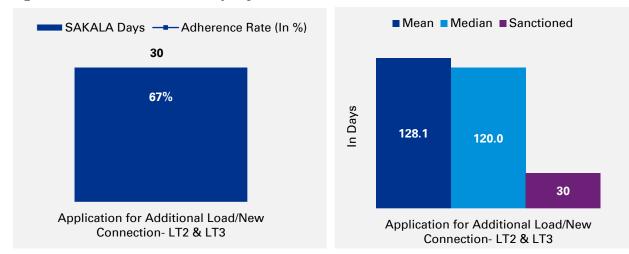


Figure 61 SAKALA timeline analysis for BESCOM services

Summary of facts & figures across services of BESCOM

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
Application for additional/new Connection- LT2 & LT3	348	79%	67%	89%	128.10

3.13. Commercial Tax Department

There is one service under the study scope for the department namely issue of registration under the Karnataka tax on professions, trades, callings and employment act 1976, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Commercial Tax Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

Figure 62 Overall NeSDA score: Commercial Tax Department

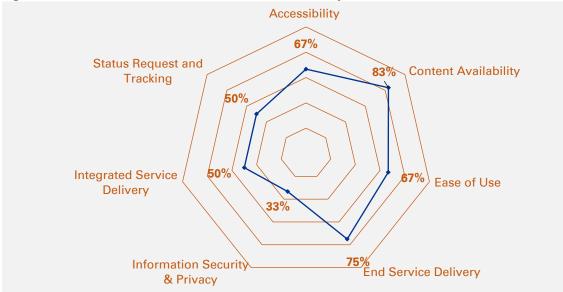


Table 28 Commercial Tax e-service delivery - Improvement areas

SI.	Commercial Tax	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
1	Registration	e-PRERANA	Web site content should also be available in
	under the Karnataka tax	website https://pt.kar.nic.	KannadaProvision for users to make personal login
	on professions,	in/(S(r3rygnchlp wgds2iaxovwl1	profiles
	trades, callings	n))/Main.aspx	• OTP authentication feature could be integrated

SI.	Commercial Tax	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
	and		Integration of information security features
	employment act		such as W3C compliance
	1976		Integration of feature to log
			complaints/grievances and provide feedback

Major areas of improvement for these services is identified as Accessibility, Content availability, Ease of Use, Information security & privacy, Integrated Service Delivery and Status request & tracking.

Parameters	Improvement Areas	Recommendations & Significance
Accessibility	 Ensuring website content also in local language Ensuring dedicated section on help manual/checklist and information on nodal officer 	 Adoption of MeitY GIGW standards for e- Governance. Placement of GIGW logo or W3C logo on websites Enables reach and coverage for the e-services
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Integrated Service Delivery	 Provisions for making offline payments could be removed to accept only online payment mode Manual effort to obtain the service should be removed 	 Integration and limitation to online payments leads to transparency and consistency in service delivery Manual processes should be eliminated in service delivery
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	 Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Figure 63 Recommendations for Commercial Tax portal

Applicant data analysed for the evaluation period reveals a remarkably high approval rate of 100% for professional tax enrollment for both individual and companies.

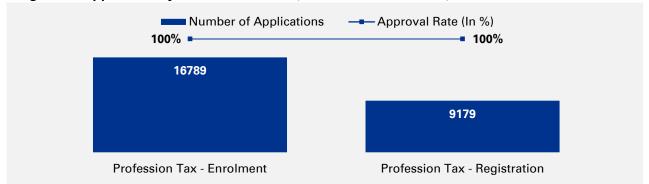
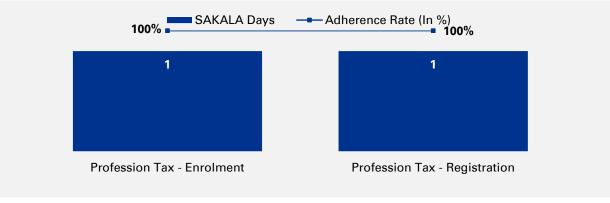


Figure 64 Applications for Commercial Tax, Source SAKALA DPAR, GoK

Adherence rate for SAKALA timeline was found also found to be 100% for both the categories of applicants.





Summary of facts & figures across services of Commercial Tax Department

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score
Issue of				
registration				
under the	16789	100%	100%	53%
Karnataka Tax on				
Professions				

Table 29 Summary of figures across all Commercial Tax services

3.14. Bangalore Water Supply and Sewerage Board (BWSSB)

There is one service under the study scope for the department namely permission for new connection/additional connection for water supply and under-ground drainage for multi storied buildings, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for BWSSB Department (detailed score in Annexure). Major improvement areas for these services are tabulated below.

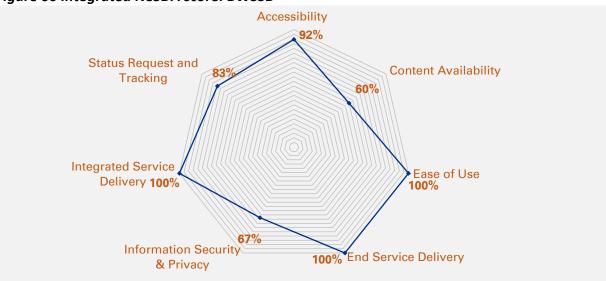


Figure 66 Integrated NeSDA score: BWSSB

Table 30 BWSSB e-service delivery - Focus areas

SI.	BWSSB	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
1	Permission for new	JALADHARE	Integration of feature to log
	connection/Additiona	website	complaints/grievances and provide
	I Connection for	https://owc.bwss	feedback
	water supply and	<u>b.gov.in/index.p</u> <u>hp/member</u>	Integrate features to provide users of
	under Ground	<u>np/member</u>	status change/update for their applications

BWSSB	Mode of	Focus Areas for each of the
Service	Delivery	services
Drainage for		
multistoried		
Buildings		
	Service Drainage for multistoried	ServiceDeliveryDrainage for multistoried

Major areas of improvement for these services is identified as Content availability and Information security & privacy.

Figure 67 Recommendations for I BWSSB portal

Parameters	Improvement Areas	Recommendations & Significance
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage

Applicant data analysed for the evaluation period reveals an 81% approval rate for the applications and primary rejections observed were lack of supporting documents or incorrect information such as wrong address, mismatching information etc.

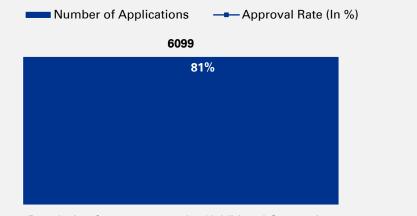
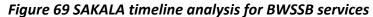
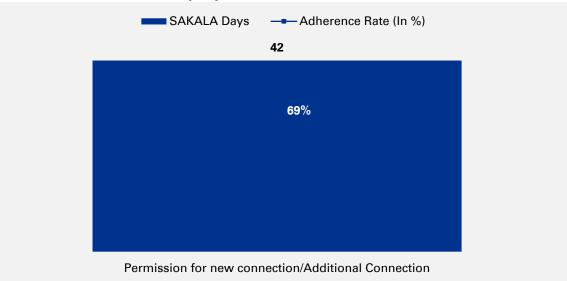


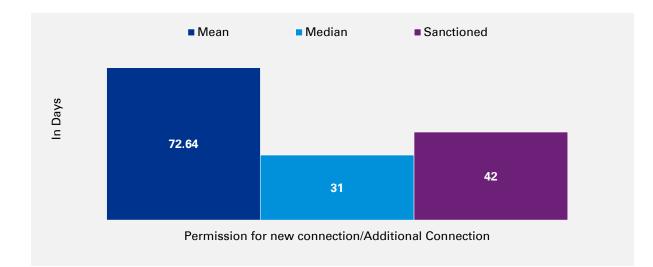
Figure 68 Applications for BWSSB, Source SAKALA DPAR, GoK

Permission for new connection/Additional Connection

Adherence rate for SAKALA timeline was found to be 45%, interactions with department officials revealed that lack of due diligence, lack of submitting supporting documents and inspection were primary reasons for delays. Central tendency measurement for the applications processed indicates department takes on average more than 1.5x of the sanctioned time on average for application processing.







Summary of facts & figures across services of BWSSB

Table 31 Summary of figures across all services of BWSSB

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
Permission for new connection for water	6099	81%	70%	87%	72.64

3.15. Directorate of Municipal Administration (DMA)

There are a total of six service under the study scope for the department namely issue of trade license, building license issuance, permission for water supply and underground connection, change of property ownership, occupancy certificate and road cutting for electricity connection, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Change of property ownership is an offline service through concerned district office, Figure below graphically depicts the NeSDA assessment scores for the service for DMA (detailed score in Annexure). Major improvement areas for these services are listed as below.

Figure 70 Overall NeSDA Score: DMA

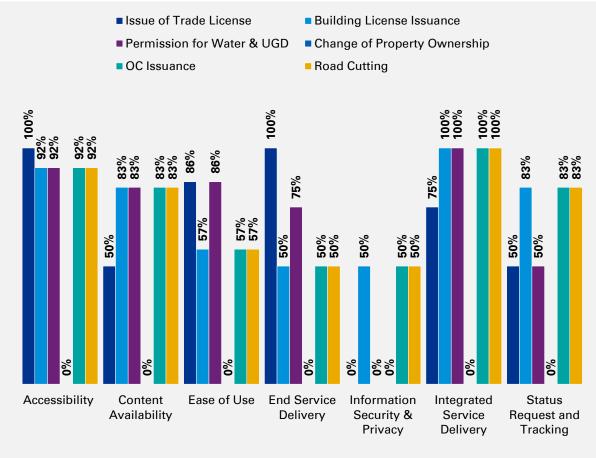


Table 32 DMA e-service delivery - Improvement areas

SI.	DMA	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
1	Issue of trade license	Vyapar website <u>http://www.mrc.</u> <u>gov.in/TradeLice</u> <u>nse/login</u>	 Integration of feature such as help and FAQ section Integration of information security features such as https protocol, lock symbol, W3C compliance Integration of feature to log complaints/grievances and provide feedback
2	Building License Issuance for - First floor and above - Ground floor and first floor	Land and Building Plan Approval System (LBPAS) <u>http://164.164.10</u> .22/LBPASPORT AL/Portal/DashB oard	 Web site should be in Top 5 results of search engine Manual touch point of physical inspection by local urban body authorities/architects should be rationalised Integration of information security features such as https protocol, lock symbol, W3C compliance Provision for users to be verified with a two-
3	Occupancy certificate issuance Road cutting for electricity connection		 factor authentication should be integrated Integration of feature to log complaints/grievances and provide feedback For road cutting service, provision for offline payment should be removed
5	Permission for water supply and UGD connection for residential buildings - nondomestic purpose - commercial purpose	Karnataka Municipal Data Society Website <u>http://www.mrc.</u> <u>gov.in/en/Citizen</u> <u>OnlineServices</u>	 Provision for users to make personal profiles Manual touch point of physical inspection by local urban body authorities should be rationalised Integration of information security features such as https protocol, lock symbol, W3C compliance Provision for users to be verified with a two- factor authentication should be integrated Integration of feature to log complaints/grievances and provide feedback

SI.	DMA	Mode of	Improvement Areas for each of the
No.	Service	Delivery	services
6	Change of	Offline Service	Service should be made online and should be
	property		compliant to suggestions made in
	ownership		recommendations section of this report

Overall average score for all above DMA services is depicted in figure below, major areas of improvement for these services is identified as Ease of use, End service delivery, Information security & privacy and Status request & tracking.

Figure 71 Integrated NeSDA score: DMA

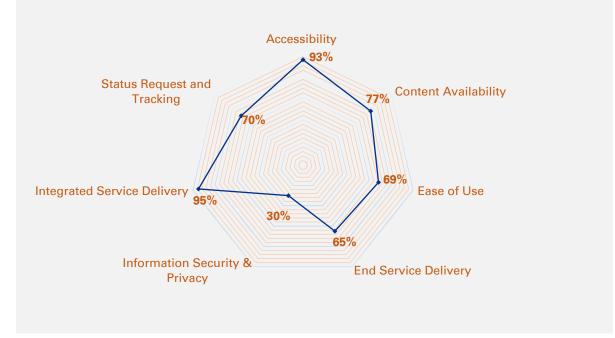


Figure 72 Recommendations for improvement in DMA portal

Q arameters	Improvement Areas	Recommendations & Significance
Ease of Use	 Website search engine results should be available in Top 5 results Integration of features such as how to guides, search feature for website 	 Influences the ambit of e-service quality measurement and aids in reducing digital divide by providing better accessibility of the e-Government services
End Service Delivery	 Provisions for making offline payments could be removed to accept only online payment mode Manual effort to obtain the service should be removed 	 Integration and limitation to online payments leads to transparency and consistency in service delivery Manual processes should be eliminated in service delivery
Information Security & Privacy	 Integration of online security measures such as hosting on https compliance, W3C compliance, lock symbol Intimating users for password update or unauthorized access to profile 	 Leverage MeitY ePramaan Framework guidelines for eAuthentication for users Increases the trust of citizens in service delivery which in turn increases adoption and helps increase reach and coverage
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Applicant data analysed for the evaluation period illustrates that most utilised service for the departments is trade license and approval rate for all service is above 80%. Primary reasons for rejections observed is tabulated below.

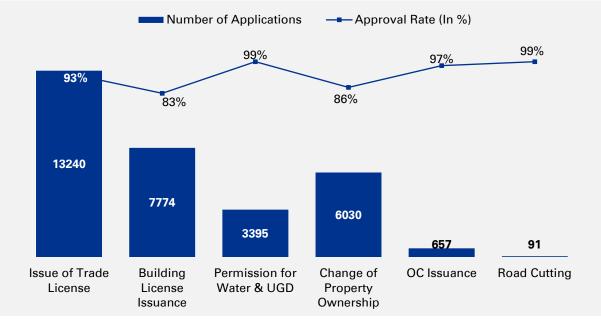


Figure 73 Applications for DMA, Source SAKALA DPAR, GoK

For Issue of Trade	For Building License	For Permission of
License		Water and UGG
Submission with	Non submission of supporting	Non completion of
mismatching	document such as affidavit,	construction
information, without	RDA copy, layout etc.	activity
fees payment	Affidavits submitted without	Nonpayment of
Submission to	signatures	property tax
wrong jurisdiction	Noncompliance to road	Duplicate requests
	margins	by applicants
	Submission of incorrect	Noncompliance to
	document and non-legible	inspection
	documents	observations
	Submission to wrong	
	jurisdiction	
	Submission without approval	
	from different sections such as	
	AEE, RDA etc.	

Karnataka Evaluation Authority

• Nor	payment of taxes	
For Change of Property	For OC Issuance	For Road Cutting
Ownership		
Non submission of	Deviation from plan	Incorrect names of
supporting documents such	such as double	applicants
as EC number, Aadhar	kitchen on floors	
number, non-payment of	Submission to wrong	
challan	jurisdiction	
Non-payment of application	Mismatch of	
fees	measurement areas	
	to documents/plan	
	submitted	

Adherence rate for SAKALA timeline was found to be below 40% for four out of the six services for department and least was for building license issuance. Interactions with department officials revealed that lack of supporting documents, due diligence by applicants and multiple interactions with other departments were primary reasons for delays. Services delivered by departments still had instances of offline interactions i.e. supporting documents submission.

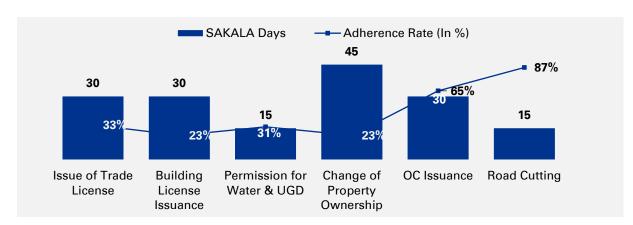
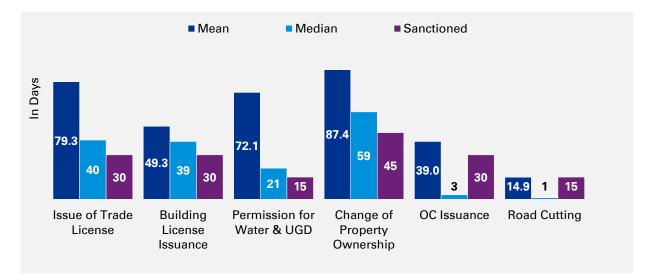


Figure 74 SAKALA timeline analysis for DMA services

Central tendency measurement for the applications processed indicates that for trade issuance department takes more than 2.5x, for building license issuance more than 1.5x, for water supply & UGD permission more than 4.5x, for change of property ownership nearly 2x of the sanctioned time.



Summary of facts & figures across services of Directorate of Municipal Administration

Service	Applicants	Approval	SAKALA	NeSDA	Mean
		Rate	Adherence	Score	SAKALA timeline (in days)
Issue of					
Trade	13240	93%	33%	69%	79.34
license					
Building					
License	7774	83%	23%	76%	49.28
Issuance					
Permission					
for water	3395	99%	31%	71%	72.10
supply and	0000	5570	5176	7170	72.10
UGD					
Occupancy					
certificate	6030	97%	65%	76%	87.45
Issuance					
Change of					
Property	657	86%	23%	0	39.03
Ownership					
Road					
Cutting	91	99%	87%	76%	14.91
(Right of	וט	5570	0770	, , , , , , , , , , , , , , , , , , , ,	וסידי
way)					

Table 33 Summary of figures across all services of Directorate of Municipal Administration

3.16. Registrar of Co-operative Societies

There is one service under the study scope for the department namely registration of societies under Karnataka societies act 1960, key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Registrar of Societies (detailed score in Annexure). Major improvement areas for these services are listed as below.



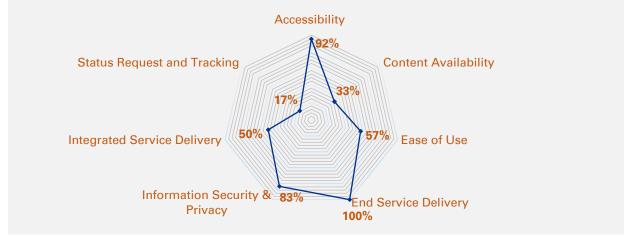


Table 34 Registrar of Societies e-service delivery - Focus areas

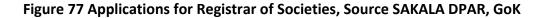
SI.	Registrar of Societies	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
1	The Registration of Societies under section 8 of The Karnataka societies Registration Act 1960	Department website https://societ yreg.karnata ka.gov.in/	 Web site to be in Top 5 results of search engine Manual touch point in service delivery i.e. inspection and scrutiny by department officials should be rationalised Integration of information security features such as W3C compliance Payment gateway to be integrated in online service delivery module Integration of feature to log complaints/grievances and provide feedback

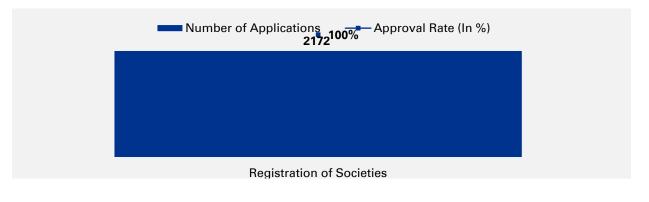
Karnataka Evaluation Authority As seen from figure above, improvement areas are Content availability, Ease of use, Integrated service delivery, and Status request and tracking. Below improvement features in these areas would further enhance the transparency, better user experience and reduce service delivery discrepancies.

Parameters	Improvement Areas	Recommendations & Significance
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Ease of Use	 Website search engine results should be available in Top 5 results Integration of features such as how to guides, search feature for website 	• Influences the ambit of e-service quality measurement and aids in reducing digital divide by providing better accessibility of the e-Government services
Integrated Service Delivery	 Provisions for making offline payments could be removed to accept only online payment mode Manual effort to obtain the service should be removed 	 Integration and limitation to online payments leads to transparency and consistency in service delivery Manual processes should be eliminated in service delivery
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Figure 76 Recommendations for Registrar of Societies portal

Applicant data analysed for the evaluation period reveals a remarkably low approval rate of 53% with primary rejections tabulated below.





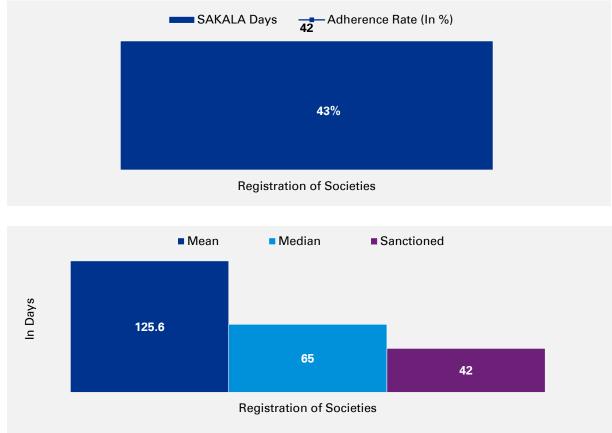


Figure 78 SAKALA timeline analysis for Registrar of Societies

As seen from the above figure 78, adherence rate for SAKALA timeline was found to be 43%, interactions with department officials revealed that multiple interaction with associated line departments were primary reasons for delays. Interaction with applicants is mostly offline for the services. Central tendency measurement for the applications processed indicates department takes on average takes nearly 3x of the stipulated time for application processing.

Summary of facts & figures across services of Registrar of Cooperative Societies

Table 35 Summary of figures across all services of Registrar of Societies

Service	Applicants	Approval Rate	SAKALA Adherence	NeSDA Score	Mean SAKALA timeline (in days)
Registration of Societies	2172	100%	43%	64%	125.60

3.17. Department of Electrical Inspectorate

There are two service under the study scope for the department namely approval of drawings of the electrical installation and issue of commissioning approval (both only for industrial installations), key inferences from NeSDA assessment and applicant data analysis for the service is as below.

Figure below graphically depicts the NeSDA assessment scores for the service for Department of Electrical Inspectorate (detailed score in Annexure). Major improvement areas for these services are listed as below.

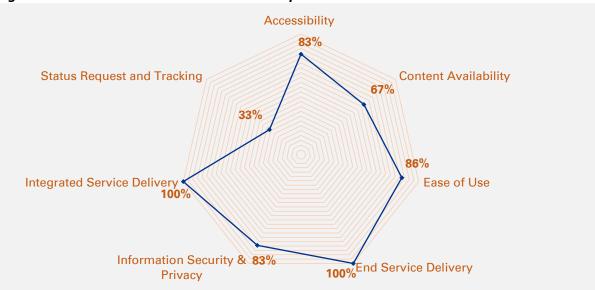


Figure 79 Overall NeSDA Score: Electrical Inspectorate

Table 36 Electrical Inspectorate e-service delivery - Focus areas

SI.	Electrical Inspectorate	Mode of	Focus Areas for each of the services
No.	Service	Delivery	
1	Approval of drawings of the electrical installation (Industrial Installations only)	Department website <u>https://ksei.go</u> <u>v.in/eisoft</u>	

SI.	Electrical Inspectorate	Mode of	Focus Areas for each of the
No.	Service	Delivery	services
			 Web site should be in Top 5 results of search engine Integrate features to provide users of status
2	Issue of Commissioning Approval (Industrial Installations only)	-	 change/update for their applications Integration of feature to log complaints/grievances and provide feedback Contact information for nodal officers to be explicitly provided on web page

As seen from figure above, major improvement in areas such as Content availability, and Status request and tracking. Below improvement features in these areas would further enhance the transparency, better user experience and reduce service delivery discrepancies.

Figure 80 Recommendations for Electrical Inspectorate portal

Parameters	Improvement Areas	Recommendations & Significance
Content Availability	 Ensuring Help manuals and dedicated FAQ section at the portal Integration of site maps and feature to provide feedback and comments Providing know how on digital signature 	 Leverage MeitY Content Management Framework with aim to improve presentation, usability and consistency of state portal Access to useful information enables better user experience and improves transparency
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Applicant data analysed for the evaluation period reveals an approval rate of above 90% for both the services. Primary reasons for rejections are tabulated as below.

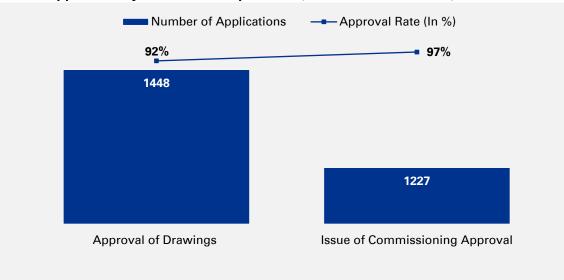
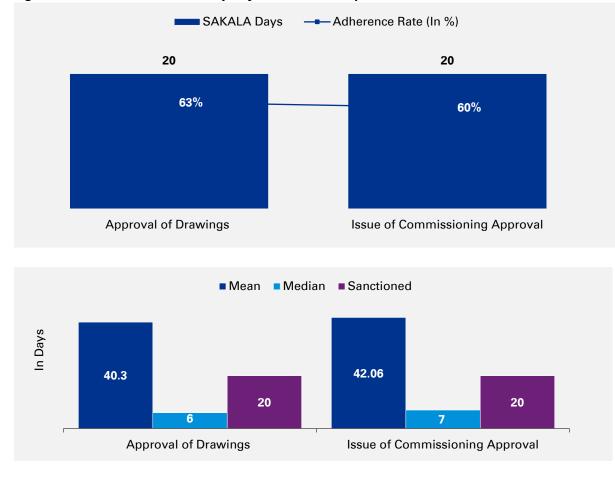
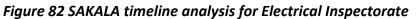


Figure 81 Applications for Electrical Inspectorate, Source SAKALA DPAR, GoK

For Approval of Drawings	For Issue of Commissioning Approval			
Non submission of supporting	Noncompliance to observations shared			
documents	Non submission of supporting			
Submission in wrong jurisdiction	documents			
Noncompliance to observations				
shared				

Adherence rate for SAKALA timeline was found to be on average 62%, interactions with department officials revealed that lack of submitting supporting documents and inspection compliance were primary reasons for delays. Mode of interaction with applicants in many instances are offline primarily for supporting documents submission. Central tendency measurement for the applications processed indicates department takes on average more than 2x of the stipulated time for processing of application.





Summary of facts & figures across services of Department of Electrical Inspectorate

Service	Applicants	Approval Rate	SAKALA Adherence	Mean SAKALA timeline (in days)
Approval of Drawings	1448	92%	63%	40.3
lssue of commissioning approval	1227	97%	60%	42.06

3.18. Regression analysis of data across all departments

A regression analysis was performed to understand the associations between process efficiency, IT enablement, and stakeholder connect (see annexure 1 for details). The services where data was available for all the three parameters, i.e., 45 services across 17 departments, were assessed for understanding the relationship between them.

The analysis of association between process efficiency (indicated by adherence to SAKALA timelines) and stakeholder connect (indicated by approval rate) indicate that there is a significant, positive correlation between these two parameters. The results are provided below.

Key results of the regression analysis:

- Value of Pearson's Coefficient for correlation between 'approval rate' and 'adherence to SAKALA timelines' is 0.45
- 2. The P-value for this test is 0.00192, which less than ' α ' of 0.05 and indicating that there is a statistically significant, positive relationship between the two parameters
- 3. From the R Square values, it is indicative that roughly 20% variations in approval rate can be explained by SAKALA adherence

	SUMMARY OUTPUT C	FREGRESS	ION BETV	VEEN APP	OVAL RATE &		RENCE	
		T REGRESS			OVAL NATE Q			
Regression	Statistics							
Multiple R	0.450097046							
R Square	0.202587351							
Adjusted R Square	0.184042871							
Standard Error	0.172385459							
Observations	45							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.324638	0.32464	10.9244	0.001920431			
Residual	43	1.27782	0.02972					
Total	44	1.602458						
		Standard						
	Coefficients	Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.644888308	0.071727	8.99092	2E-11	0.500237773	0.789538843	0.50023777	0.789538843
SAKALA Adherence	0.371920319	0.112526	3.30521	0.00192	0.144990956	0.598849683	0.14499096	0.598849683

4. The Linear equation is: Approval Rate= 0.64 + 0.37 * (SAKALA Adherence)

4. Business Reforms in Karnataka

4.1. Background

In 2003, State of Karnataka enacted "The Karnataka Industries (Facilitation) Act 2002" to promote industrial development and facilitate new investments with a simplified regulatory framework. Few of the key highlights of the Karnataka Industries (Facilitation) Act 2002 are:

- To provide a single point guidance and assistance to investors
- To minimize procedural requirements
- To rationalize documentation requirements

This act provides for constitution of State High Level Clearance Committee, State Level Single Window Clearance Committee and District Level Single Window Clearance Committee for consideration of application from entrepreneurs intending to establish industries in the State. Snapshot of the working details of various committees is depicted in figure below.

Figure 83 EoDB functioning in Karnataka

	Authority	Functions	Power
State High Level Clearance Committee	The apex committee constituted under the chairmanship of Chief Minister of Karnataka examines proposals with an investment of rupees five hundred crores and above	Examines proposals at state/district level and takes appropriate decision and communicate its decision to the concerned parties or authorities within such time as may be prescribed	Approvals given are binding on all the concerned departments or authorities and such departments or authorities is then required to issue the appropriate clearances within stipulated time subject to compliances by the entrepreneur
State Level Single Window Clearance Committee	The committee under the chairmanship of Minister for Industries examines proposals with an investment of rupees fifteen crores and above and up to rupees five hundred crores	Examines proposals at state/district level and takes appropriate decision and communicate its decision to the concerned parties or authorities within such time as may be prescribed	Approvals given are binding on all the concerned departments or authorities and such departments or authorities is then required to issue the appropriate clearances within stipulated time subject to compliances by the entrepreneur
District level Single Window Clearance Committee	The committee under the chairmanship of Deputy Commissioner examines proposals with an investment of up to rupees fifteen crores	Examines proposals at state/district level and takes appropriate decision and communicate its decision to the concerned parties or authorities within such time as may be prescribed	Approvals at district level are binding on concerned departments or authorities and such departments or authorities is then required to issue the appropriate clearances within stipulated time subject to compliances by the entrepreneur

Source: https://kum.karnataka.gov.in/newproposal.html

Karnataka Udyog Mitra (KUM) at state level and District Industries Centre (DIC) at district level are notified Nodal agencies rendering guidance and assistance to entrepreneurs for industrial activities in the state. Some of the highlights for processing steps of applied proposal with DIC & KUM are listed below ⁶:

- KUM/DIC's will process / scrutinize the Combined Application Form (CAF) and place the same before the SLSWCC or SHLCC or DLSWCC, depending on the scale of investment of the project.
- During the scrutiny process, department may seek additional data or document based on project proposal through Notification and the same can be uploaded using the Login ID created at eBiz portal.
- Investors will be invited to attend the Land Audit Committee meeting /DLSWCC/SLSWCC meeting via SMS and Email Intimation, and are required to make a presentation on the salient features of the project.
- Once the project proposal is cleared by the DLSWCC/ SLSWCC / SHLCC, project proponent may log on to e-Udyami website and choose and submit online application along with required documents pertaining to KIADB,KSSIDC,KSPCB,I and C department, Energy department, Factories and Boilers etc. for obtaining various clearances/approvals.
- KUM/DIC's will follow up with the respective departments / agencies on behalf of the investors and Coordinate the required clearances / approvals.

KUM to facilitate and streamline investment proposals has taken various initiates to reform the regulatory framework such as mobilisation of e-Udyami website with helpline, constituted monitoring and grievances redressal cell to facilitate successful

⁶ Analysis based on <u>https://ebiz.karnataka.gov.in/kum/index.aspx</u>

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implementation of projects in the state. Framework for same with designated nodal officers is tabulated as below:

SI. No. Project Activity	Facilitation Framework in Karnataka Chairman & Nodal Officers			
1. Projects up to Rs. 15 Cr	ores - At District Level			
1A. Help Line	Joint Director, District Industries Centre (For Respective			
	Districts)			
1B. Monitoring &	Chairman- Deputy Commissioner (For Respective			
Grievances Redressal Cell	Districts)			
	Nodal Officers- For every respective Districts:			
	a) Joint Director,			
	b) Development Officer, KIADB			
2. Projects above Rs. 15 C	rores - Karnataka Udyog Mitra			
2A. e-Udyami -	Joint Director, Karnataka Udyog Mitra			
Maintenance & Updating	Executive Officer, Karnataka Udyog Mitra			
Website				
2B. Help Line	Nodal Officers:			
	Assistant Director, Karnataka Udyog Mitra			
	Executive Officer, Karnataka Udyog Mitra			
2C. Monitoring Cell -	Chairman- Managing Director, Karnataka Udyog Mitra			
Reviews progress of	Nodal Officers-			
approved projects	a) Deputy Director, Karnataka Udyog Mitra			
	b) Executive Officer, Karnataka Udyog Mitra			
	c) Members from associated Line Departments			
2D. Grievances Cell -	Chairman- Managing Director, Karnataka Udyog Mitra			
Addresses Investor	Nodal Officers-			
Grievances for any	a) Deputy Director, Karnataka Udyog Mitra			
approved projects	b) Executive Officer, Karnataka Udyog Mitra			
	c) Members from associated Line Departments			

Table 38 Investment Project Facilitation Framework in Karnataka

4.2. Investment Trends in Karnataka

In this section key trends are analysed for the growth for industries/business/services for two specific periods, i.e., Pre-Sakala (between 2001 and 2011) and Post-Sakala (between 2012 and 2020) through secondary data research, sources utilised for the secondary research in the study are Economic survey reports of Karnataka⁷ and MSME annual reports⁸.

Key findings from the pre and post Sakala period (i.e. before 2011 and after) in the State are:

- FDI flow in the state increased by 4x times in the post-Sakala period as compared to pre-Sakala period;
- While total investments approved through the state single window committees during post-Sakala period was just 54.3% of the investments approved in the state during the pre-Sakala period (between 2006 and 2011), the average investment size has witnessed an increase by ~42%
- Average investment per project cleared by SHLCC has consistently grown from INR 1603 Crores in 2006-11 to INR 2270 Crores in 2016-19 whereas for SLSWCC it has grown from INR 15.7 Crores in 2007-11 to INR 87.1 Crores in 2016-20;
- 4. As per the IEM filled, average investment size for a project in last four years has been more than 2x the investment size per project in previous four years. This likely indicates more investment in medium to large scale projects rather than small to micro size projects;
- Similarly, while the number of registered MSME units grew by 0.4% in in the pre-Sakala, the growth rate was significantly better at 12.4% during the post-Sakala period.

Source: Analysis based on https://ebiz.karnataka.gov.in/kum/index.aspx

⁷ <u>http://karenvis.nic.in/Content/EconomicSurveyKarnataka</u> 8184.aspx

⁸ <u>https://msme.gov.in/relatedlinks/annual-report-ministry-micro-small-and-medium-enterprises</u>

Post 2011, the GSDP composition trends analysed below highlights the growth observed by the tertiary sectors in the state at the expense of declining share by secondary and primary sector. At current prices, the gross domestic product of Karnataka stood at about Rs 15.88 trillion (US\$ 227.26) in 2019-20, exhibiting a growth rate of 12.8% for the period of 2012-2020. Similar trend of CAGR in per capita income for the state is observed in the time period, figure below illustrates the growth trend.

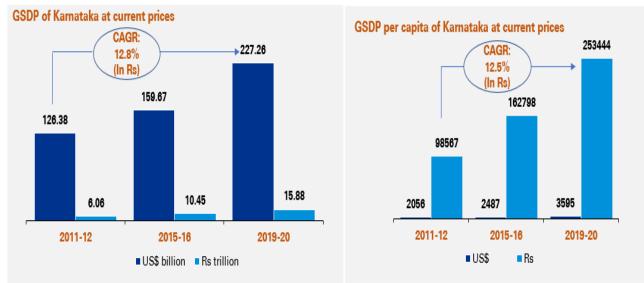


Figure 84 GSDP Trends in Karnataka 2012-2020

Source: Economic Survey 2019, Planning Department Government of Karnataka

Further analysis of GSDP/GSVA composition⁹ revealed below trends for the state:

- At a CAGR of 14.10 per cent (in rupees term), tertiary sector was the fastest growing among the three sectors between 2011-12 and 2019-20. The growth was driven by trade, hotels, real estate, finance, insurance, transport, communications and others.
- Secondary sector grew at a CAGR of 9.96 per cent (in rupees term) between 2011- 12 and 2019-20. This sector is proxy for manufacturing, construction and electricity, gas and water supply.

⁹ Source: Economic Survey 2019-20, Government of Karnataka

3) Primary sector grew at a CAGR of 10.26 percent (in rupees term) between 2011-12 and 2019-20.

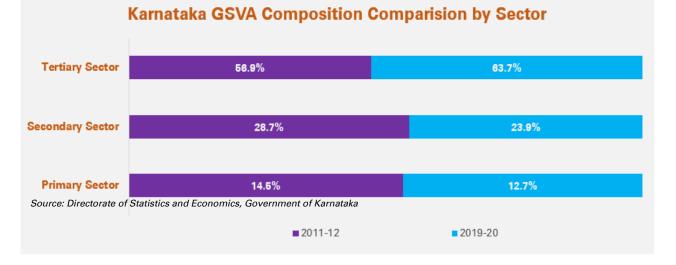
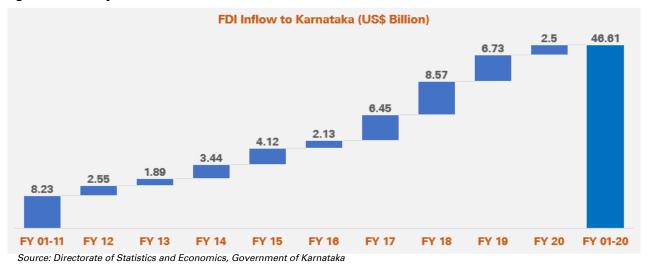


Figure 85 GSVA Composition trends for Karnataka

Below section details on the key findings observed above, to analyse the growth of industries, business/ services, investments etc. in pre and post Sakala period (i.e. before 2011 and post) in the State.

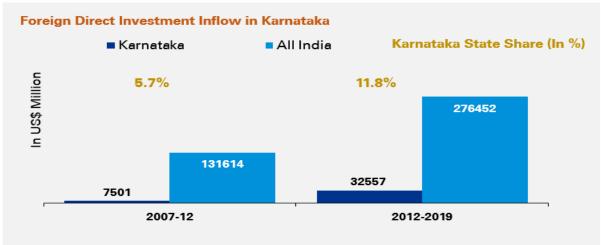
Finding 1: As per Department for Promotion of Industry and Internal Trade (DPIIT), cumulative FDI inflow stood at US\$ 46.61 billion between April 2000 and March 2020, the third highest in India after Maharashtra and Delhi, and accounted for a share of 18 per cent of India's cumulative FDI inflow. Figure below depicts the year wise flow received by Karnataka, for the financial years 2012-20 (post-Sakala period) the investment received by state was nearly 4.6x times of the investment received in financial period of 2001-11 (pre-Sakala period).

Figure 86 FDI Inflow in Karnataka



FDI inflows in state has increased at aggregate level in post-Sakala period i.e. 2012. At an aggregate level cumulative share of the state has nearly doubled from 5.7% to 11.8% as depicted in figure below.



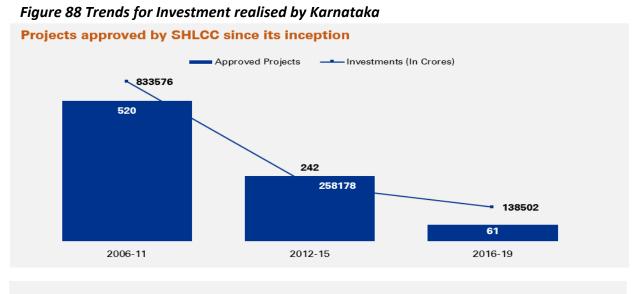


Source: Directorate of Economics and Statistics, Government of Karnataka

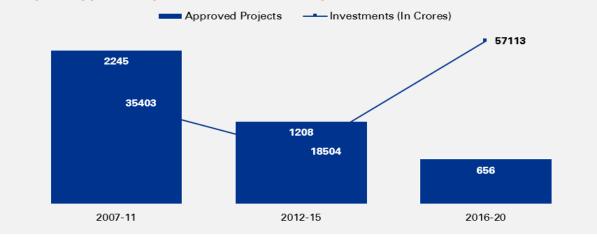
Finding 2 and 3: While total investments approved through the state single window committees have declined in post-Sakala period, the average investment size has increased. Projects cleared by SHLCC in the state, after 2012, in terms of investment value, is just 47% of the investments cleared by the committee during 2006-11. Also, the total

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investments realised in the state during 2012-20 was just 54.3% of the investments realised in the state during 2006-11. However, the average investment per project cleared by SHLCC has consistently grown from INR 1603 Crores in 2006-11 to INR 2270 Crores in 2016-19 whereas for SLSWCC it has grown from INR 15.7 Crores in 2007-11 to INR 87.1 Crores in 2016-20.



Projects approved by SLSWCC since its inception

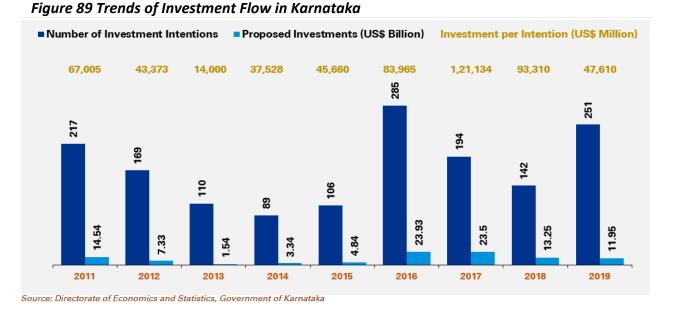


Source: Directorate of Statistics and Economics, Government of Karnataka

Finding 4: Investment intentions and proposed investments for the time period is depicted below which reveals a trend of increasing size of investment proposed per project. Average investment size for a project in last four years have been be more than 2x the investment size per project in previous four years, indicative of more investments in medium to large

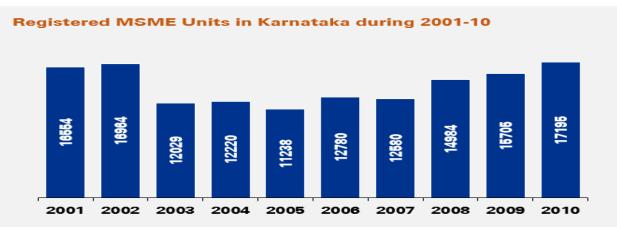
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scale projects rather than small to micro size projects. Below trend analysis is based on Industrial Entrepreneur Memoranda (IEMs) filed and Letters of Intent/ Direct Industrial Licences (LOIs/DILs) issued filed for delicensed sector. Data before 2011 was not available.



Finding 5: For MSME units registered in the state for the period before SAKALA i.e. 2001-10, the growth rate for registered MSME units was 0.4%. However, this growth rate significantly increased to 12.4% in the post-Sakala period Distribution of type of MSME units during the period 2001-10 was not available.

Figure 90 MSME units in Karnataka before 2011



Source: Directorate of Economics and Statistics, Government of Karnataka

MSME units in the state form an important and growing segment of Karnataka's industrial sector, total number of registered MSME units have grown at an CAGR of 14% during the time period of 2011-19¹⁰. Distribution of such units yearly is depicted in figure below, an important take away is the significant rise in number of small units operating in the state. In 2011, number of small units comprised approximately 7% of the total number of registered units in state which has grown to 17% in year 2019. However, trends observed for the investments received in these MSME units primarily establishes the increased growth in medium category units when compared to other two, since:

- CAGR for investments received in Micro, Small and Medium category are approximately 27%, 28% and 34% respectively;
- Investments realised for medium category increased from 15% in 2011 to 22% in 2019.

¹⁰ Source: Economic Survey 2019-20, Government of Karnataka Karnataka Evaluation Authority | Page 132

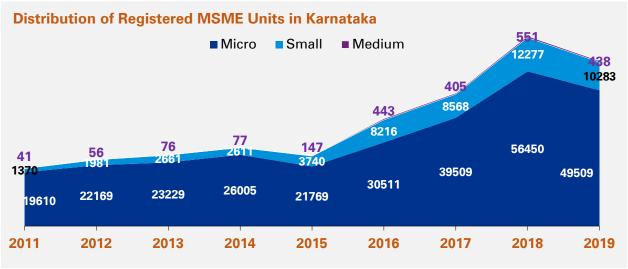
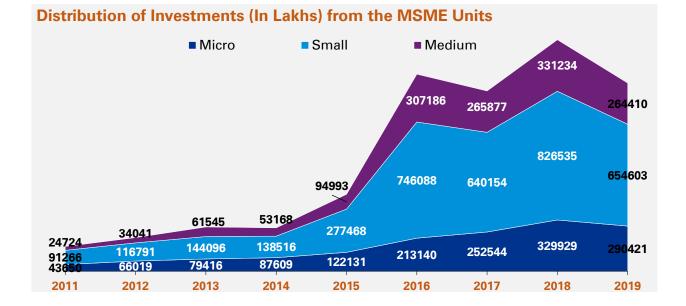


Figure 91 MSME Units in Karnataka (In Numbers)



Source: Directorate of Statistics and Economics, Government of Karnataka Karnataka Evaluation Authority | Page 133

4.3. Recent Developments4.3.1. Karnataka Industrial Policy 2020-25

The new Karnataka Industrial Policy¹¹ envisions the state to emerge as a "global leader in advanced manufacturing, research and development, and innovation and to create an ecosystem for an inclusive, balanced and sustainable development of the State". Karnataka Industrial Policy 2020-25 is aimed at the states holistic development and the promotion of Tier II and Tier III cities i.e. comparatively less industrialised cities/districts.

Government, through this policy, plans to introduce significant fiscal, labour, and land ref orms and, thereby, attract INR 5 lakh crore investments and create about 2 million jobs.

Key highlights from the policy that would benefit the state's business environment are as below:

- Zoning of state districts: The new industrial policy groups Karnataka's districts into three zones to develop areas considered to be industrially backward. The industrially backward districts come under Zone-1 and Zone-2 while more industrially developed districts are classified under Zone-3 and Zone-4. Urban centers Bengaluru and Mysuru (formerly Mysore) come under Zone-4. Incentives will be rolled out to direct greater investment to the industrially backward districts.
- Sector focus of the policy: Key focus sectors have been identified under the policy automobiles and auto components, pharmaceuticals, medical devices, engineering and machine tools, knowledge-based industries, logistics, renewable energy, aerospace, defense, and electric vehicles.
- Special investment regions in Dharwad and Shivamogga: The policy aims to enact the Special Investment Region (SIR) Act to create, operate, and regulate such investment regions in the state. Special investment regions would have an area of about 100 sq.km
- and be categorised as industrial townships. The first such region or SIR region will encompass the Dharwad, Gadag, Haveri, and Belagavi districts of Karnataka. Another SIR that is being planned includes Shivamogga, Davanagere, Chitradurga, and

¹¹ <u>https://auto.economictimes.indiatimes.com/news/policy/karnataka-cabinet-approves-new-industrial-policy-for-2020-2025/77139332</u>

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Chickamagaluru districts as well as Kalaburagi, which is in the Kalyana Karnataka district.

- Subsidies for MSMEs: The policy offers production turnover-based subsidies for micro, small, and medium-sized enterprises (MSMEs) with a view to boost industrial innovation. The investment promotion subsidy will be based on 10 percent on turnover each year for a period of five years and limited to 20 to 30 percent of value of fixed assets (VFA). Other incentives include – exemption from stamp duty and concessional registration charges; reimbursement of land conversion fee; tax exemption on electricity tariff for MSMEs; and power subsidy for MSMEs.
- Local jobs creation: The policy will require new industrial projects to create as much direct employment as possible and hire locally – a minimum of 70 percent of the workforce should consist of locals and 100 percent in the case of Group D type of employees (housekeeping and sanitation staff, non-technical posts, drivers, etc.)
- Labour reforms under the policy: An amendment to the Factories Act, 1948 will ensure that women workers who work the night shift in factories, that is between 7pm to 6am, are registered. Sections 64 and 65 of the Factories Act have been amended to extend overtime hours to 125 hours per quarter. The Industrial Employment (Standing Order) Act, 1946 has been amended to permit fixed term employment or contract employment.
- Wage revisions: The minimum wage will be periodically revised based on factors like inflation and consumer price index (CPI).
- Incentives Qualification: The New Industrial Policy 2020-25 outlines investment promotion subsidies for enterprises according to their scale of production, turnover, and whether they are operated by persons belonging to special categories. Incentives categories are investment promotion subsidies, interest subsidy on loan, stamp duty concessions, tax exemptions on electricity tariffs etc.

4.3.2. Karnataka Industries (Facilitation)(Amendment) Act,2020

In October 2020, the Government of Karnataka issued a landmark amendment to the Karnataka Industries (Facilitation) Act, 2002. As per the amendment, small, medium and large-scale manufacturing companies in the State need not secure all required approvals/NOCs before commencing the construction or establishment of the company. These are deemed approved for a period of 3 years or until the commencement of commercial operations (whichever is earlier).

Manufacturing companies could commence construction and other activities soon after land allotment without seeking the following approvals beforehand:

- 1) Acquire land u/s 109 of Karnataka Land Reforms Act for non-agricultural purposes
- 2) Non-Agricultural Conversion
- 3) Building Plan Approval from KIADB, KSSIDC, BDA, BBMP & other ULBs/Local Planning Authorities & Panchayats
- 4) Factory plan approval
- 5) Provisional NOC from Karnataka State Fire and Emergency Services
- 6) Tree Felling & Transit Permission
- 7) Boilers erection permission
- 8) Registration Under Contract Labour (Regulation and Abolition) Act, 1970
- 9) Trade Licenses
- 10) Health NoC by Municipality/ Panchayat for Food Registration certificate
- 11) New License to Manufacturer of Weights and Measures State Jurisdiction

These companies need to only self-certify that they will abide by all applicable laws and regulations. If there are any deviations from these laws, at a later stage, the Act also equips the Government to hold the errant companies liable for any penalties or other penal actions.

The Act also provides for joint or coordinated inspections from multiple line departments such as Office of the Labour Commissioner; Chief Inspector of Factories and Boilers; representatives of the Employees State Insurance Corporation and the Employees Provident Fund Organisation; and Karnataka State Pollution Control Board. This measure will help avoid duplication of work between various departments, and at the same time, reduce the inconvenience of multiple inspections for manufacturing companies.

4.3.3. Karnataka EoDB Ranking 2020

Business Reform Action Plan (BRAP) 2019 released by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry consisted of 80 recommendations for reforms on regulatory processes, policies, practices and procedures spread across 12 reform areas. For BRAP 2019, DPIIT decided to assess States/UTs based only on the feedback received from actual users of services. Thus, the 80-point BRAP 2019 had been devised such that feedback can be obtained on all reform points. Feedback was to be sought only on those reform points, which had been implemented.

The feedback was to be obtained either through a face-to-face or telephonic interview with the respondents. Selection of respondents was done through below methodology:

- General points: Industrial estates was to be identified in the State/UT from the Industrial Information system. Feedback from industrial undertakings located in the industrial estate will be obtained and States/ UTs were assessed accordingly.
- User specific points: List of users of the online systems was sent by the State to DPIIT. The period covered was from 1st December 2018 to 31st March 2019, that is users should have availed the service during the coverage period. Minimum number of users per reform point were to be 20.

Full marks were awarded if a minimum of 70% surveyed investors felt that the reform in question has been implemented and answered in affirmative to each of the questions in a specific reform area. Otherwise no marks were awarded. Therefore, the scores do not represent reforms implemented, but investor feedback on these reforms.

Given the new methodology, Karnataka witnessed a decrease in the ranking released based on above methodology by DPIIT in September 2020 (from its previous year ranking of 8th to 17th in India)¹². The ranking attained by the State for the last 4 years is given below.

Year	2019		2017		2016		2015	
Karnataka	Rank	Score	Rank	Score	Rank	Score	Rank	Score
Karnataka	17	Not Released	8	96.42	13	88.39	9	48.5

¹² <u>https://eodb.dipp.gov.in/Home?year=2019</u>

4.4. Assessment of KUM/DICs

For the purpose of this study we designed a three-pronged approach to assess the functioning and status of EoDB described as below:

- Online questionnaire for the users/investors who have applied for services through KUM/DIC or its eBiz portal. This exercise could not be completed because user data was not made available by concerned department.
- Focused group discussion with investors from across the four divisions of the state.
 Observations of same from each of the FGD is detailed in annexure.
- Structured interaction with KUM and DIC officials' findings from the same is depicted below in figure 90.

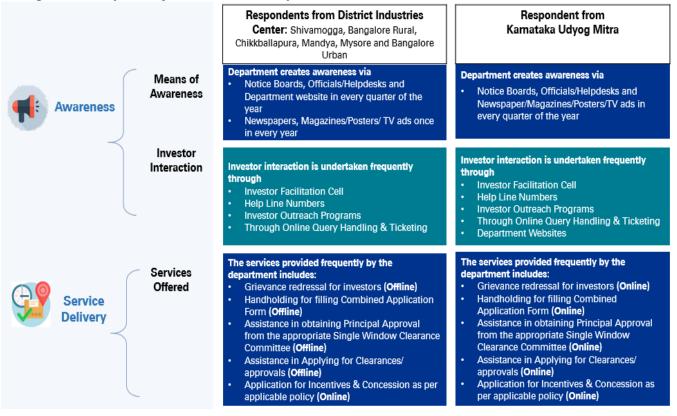


Figure 92 Snapshot of the KUM/DIC Responses

Reasons f Rejection Approva Rate	 the primary reasons for rejection are Improper information Lack of supporting documents in the submitted application 	Existing or new proposals are rejected rarely and the primary reasons for rejection are Improper information Lack of supporting documents in the submitted application Department facilitate In-Principal approval for CAF to investors in less than a month	
	 Approval Rate: Approvals are received in more than 75% of cases for New proposals and for the amendments in the existing projects Approvals are received in more than 50% of cases for clearances/NOCs 	 Approval Rate: Approvals are received in more than 75% of cases for New proposals, amendments in the existing projects and for clearances/NOCs 	
Clearar NO Facilit	obtained frequently	Clearances/NOCs from below departments are obtained frequently • KIADB • KSPCB • DFBISH • Industries and Commerce Department • All ESCOMs • Town Planning Department • Municipal Administration Department • State Fire and Emergency Services Department • Water Resource Department Clearances from below departments are obtained occasionally • KSSIDC	

Key findings from interactions with KUM and DIC officials is that in most of the cases the following services are offered through **offline channels** (the first one is offered online by KUM). These are:

- Assistance in obtaining Principal Approval from the appropriate Single Window Clearance Committee
- 2) Assistance in Applying for Clearances/ approvals with line departments
- 3) Handholding for filling Combined Application Form to investors/applicants
- 4) Grievance redressal for investors/applicants

All the above services should be available only through state single window system eBiz Portal without any manual or offline interventions. With this objective, the NeSDA assessment framework was leveraged to evaluate the functioning of eBiz portal and the detailed scores are as below.

Figure 93 Overall NeSDA score for eBiz Portal

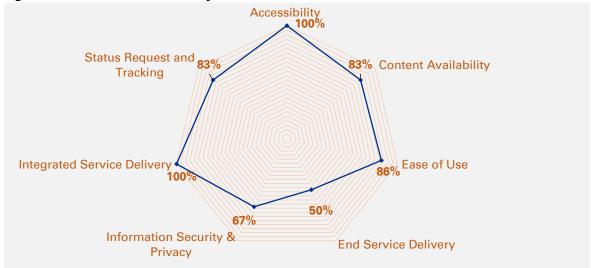


Table 40 Improvement areas for eBiz Karnataka

SI.	Karnataka Single	Website	Improvement Areas for each of the
No.	Window System		services
1	eBiz Karnataka	KUM website	 Integration of feature to log complaints/grievances and provide feedback
			Manual intervention in form of offline
		https://ebiz.kar	interaction with officials for supporting document submission or follow up request
		<u>nataka.gov.in/k</u> <u>um/index.aspx</u>	must be removed
			• Integration of enhanced security features i.e.
			adoption of W3C compliance

As seen from figure 91 above, major improvement in areas such as End service delivery, and Status request and tracking. Below improvement features in these areas would further enhance the transparency, better user experience and reduce service delivery discrepancies.

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Q arameters	Improvement Areas	Recommendations & Significance
End Service Delivery	• Provisions for officials and users to interact offline for supporting documents submission or for follow up should be removed thus nullifying the manual effort to obtain the service	 Integration and limitation to online interactions which are documented and time stamped leads to transparency and consistency in service delivery
Status and request tracking	 Integration of features to intimate users in status change/update of applications Provision for users to leave feedback Provide dedicated webpage for subjects related to payment for services 	• Leverage MeitY Digital service standard to adopt practices for end to end status tracking Improves efficiency and increases transparency for service delivery. Empowers citizens by enhancing trust in Government

Figure 94 Improvement Areas for KUM and DIC

Investor/applicant data for KUM or DIC was not made available for quantitative assessment (i.e. approval rate, time taken for approval, rejection reasons etc.) for the KUM/DIC offered services.

5. Case Studies – EoDB Best Practices

5.1. Andhra Pradesh

Since 2016, Andhra Pradesh has topped EODB ranking and same was the case in recently released ranking for 'State Business Reform Action Plan 2019' (BRAP) which showed how Indian states have fared in enhancing Ease of Doing Business. DPIIT developed its first action plan for state reforms in 2015 to make it easier, simpler and quicker for businesses to operate throughout its lifecycle of operation.

This section describes the primary steps taken by Andhra Pradesh state administration to top the rankings for three consecutive years¹³. Primary steps taken include:

- 1) Creating Awareness: Final rankings released prior to 2019 were reflective of both Reform Evidence Score and Reform Feedback Score, thus awareness of the reforms among industrialists of Andhra Pradesh was necessary. Creating a meaningful and engaging channel between industrialists and industries department was top of the priority list. Following were the key steps taken by state administration:
 - Designing creatives such as social media posts, booklet designing, hoardings designing with simple but effective language in both English and Telugu.
 - State undertook more than 150+ new reforms across categories like environmental laws, labour laws, judiciary dispute laws etc. For effective communication of these, creatives were strategised according to the line of work of the industry and delivered them useful information.
 - Facebook and Twitter were chosen as social media channels because both these platforms offered capabilities to target strategic curated advertisements at interest level, location bases, language and custom list level.

¹³ Analysis based on:

https://www.apindustries.gov.in/APIndus/UserInterface/SingleWindowServicesApplication/Public/EODB.aspx Karnataka Evaluation Authority | Page 143

Different graphics were designed in a way that it educated the budding entrepreneurs and industrialists about the environment and procedures to start/operate businesses or ease of doing business in Andhra Pradesh. To



make sure the clear communication, the content in the graphics was made less technical, more concise and reader friendly. Facebook and Twitter ads with detailed targeting were used to reach out the industrialists according to their industry type.

- Industry Reach out: Following were some of the key steps taken by state administration to effectively communicate its undertaken reforms:
 - Department of Industries organised interactive meets in every district and gave theme detailed presentation and solve their doubts regarding the newly implemented reforms to the district industrialists. Booklet, with all the industry-friendly reforms, were made available to make sure that no industrialist would be left leveraging these reforms.
 - To encourage budding and fellow entrepreneurs and industrialists to leverage the implemented resources, testimonial videos about the positive



impact on business after using the new system and educational videos, were made.

Output achieved by the state is illustrated below as state topped the ranking leveraging its intensive awareness campaign which reflected in being top performer in feedback score.





Andhra Pradesh as per 2017 DPIIT ranking in total had implemented 405 reforms, focusing on central inspection system, online land allotment system, online single window system for granting construction permits, registration under Inter State Migrant Workmen (RE&CS) Act, 1979, approval for boiler manufacturer and boiler erector etc.

 Table 41 Reforms undertaken by Andhra Pradesh since 2015

ear	Number of Reforms	Andhra Pradesh Rank	Compliance
2017	405	1	98.30%
2016	340	1	98.78%
2015	285	2	70.12%

Figure 98 Highlights of Reform Area undertaken in Andhra Pradesh



AP has special emphasis on feedback from the industry, Andhra Pradesh government is ensuring that the reforms are not only implemented but are utilized effectively by the concerned industry

DPMS System for Construction Permit, Factory Plan and Fire NoC:

Recognizing the critical role of construction in enabling business growth, Andhra Pradesh has implemented sweeping reforms, among the reforms is the implementation of online DPMS (Development Planning Management System), which has enabled a conducive ecosystem for approval of plans required for construction and setting up of industries. The application for construction permit, factory plan approval, Fire No objection Certificate etc. can be submitted online through the DPMS System and obtain Auto-DCR scrutinized and approved drawings/plans.

Reform in inspection

To bring transparency in the inspection process and reduce the turnaround time, the inspection reports are now made available online for download on CIS and the timeline for upload of inspection reports by the inspectors has been capped at 48 hours.

Reform in payment of taxes and charges

Andhra Pradesh introduced Building Rules 2017 enabling a comprehensive, development oriented and easily adoptable building stipulations to enable business friendly structure. The new building rules are anticipated to minimize the prevailing ambiguity in documentation required, various applicable codes and rates.



Single Window System

AP government launched the Single Desk Portal (SDP) in June 2015. The one-stop-shop is helping industries to obtain more than 39 regulatory clearances required to set-up and operate business in 21 days. The SDP supports end-to-end transaction processing with online payment and application status tracking. Investors can obtain clearances belonging to 19 departments covering Pre-establishment approvals, preoperation approvals and renewals. More than 23,100 industry applications were cleared through the Single Desk Portal.

5.2. Uttar Pradesh

In the recently released annual rankings for State business reform action plan (BRAP) 2019, Uttar Pradesh jumped up from the 12th position in the BRAP 2017-'18 rankings to 2nd position, leaving behind several leading states such as Gujarat, Telangana, Rajasthan, and Maharashtra

Year	Uttar Pradesh Rank	Compliance
2019	2	Yet to be released
2017	12	92.89%
2016	14	84.52%
2015	10	47.37%

Table 42 Reforms undertaken by Uttar Pradesh since 2015

As per state report, UP had implemented 186 of the 187 reforms ¹⁴ suggested by the Centre's Department for Promotion of Industry and Internal Trade (DPIIT). Reforms undertaken by the state were spread across several reform areas such as labour regulation, online single-window, access to information and transparency, land administration, construction permit, commercial disputes, inspection enablers etc.

Nivesh Mitra Portal ¹⁵ launched by the Government of Uttar Pradesh to simplify and catalyse the Ease of Doing Business in the state. It introduced a single dedicated portal on which businesses can register in online mode. All entrepreneurs in the state can login /register at www.niveshmitra.up.nic.in.

¹⁴ https://indianexpress.com/article/india/ease-of-doing-business-rankings-up-credits-nivesh-mitra-platform-for-its-success-6584853/
 ¹⁵ Information for Nivesh Mitra sourced for http://www.niveshmitra.up.nic.in/

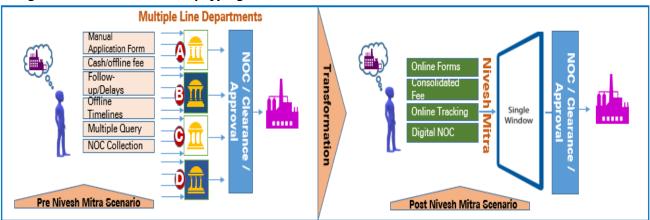


Figure 99 Nivesh Mitra Simplifying EoDB in UP

More than 147 services from around 20 departments have been added to the UP Nivesh Mitra Single Window Portal to ease business. It offers a one stop solution for online application, consolidated fee payment and monitoring the status. The services available on this portal include the list of required certificates, No Objection Certificate (NOC) and license. Along with this, online third-party verification of certificate / NOC / license can also be done through Nivesh Mitra. Following are the departments which are presently included under Nivesh Mitra:

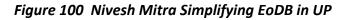
Table 43 Nivesh Mitra integrated departments

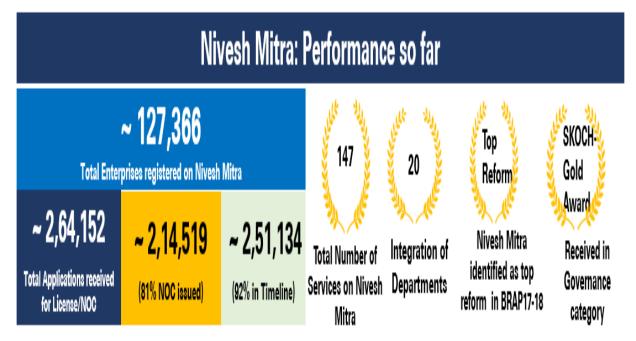
SI. No.	Department Name
1	Directorate of Industries
2	Pollution Control Board
3	Commercial Tax
4	Power
5	Excise Department
6	Factories/Boilers
7	Labour Department
8	Fire
9	Electrical Safety

SI. No.	Department Name
10	Food & Drug Admin.
11	Forest
12	Stamps and Registration
13	Revenue Department
14	Registrar Firms and Society
15	Legal Metrology
16	Public Works Department
17	Electrical Inspectorate
18	Housing
19	Industrial Development Authority (UPSIDC/NOIDA/Greater NOIDA/YEIDA)

Few of the salient features of the reforms undertaken are listed as below:

- Provision of Common Application Form (CAF) for applying to pre-establishment and pre-operation clearances/approvals.
- Details filled by entrepreneur in CAF being auto populated in clearance specific application form.
- Automatic SMS and e-mail response to entrepreneur generated at each stage.
- Online monitoring of applications can be done by entrepreneur, department concerned & DIC at District level, Divisional level and State level.
- Grievance redressal/Online feedback submission on draft government policies.
- Entrepreneurs can view the status online and clarify the objections raised.
- Tracking of application with colour coding to highlight those exceeding the time limit.
- Institutionalisation of 'Invest UP' in line to the vision of 'Invest India' Investment Promotion Agency of Govt. of India.
- The Implementation of stringent mandates such as 'One Time Query within 7 days of application received' and 'Application to be received by Nivesh Mitra Only' & 'Mandatorily digitally signed NOC issuance'.
- For Grievance Redressal, 'Nivesh Mitra' has received total 20,788 applications; out of which more than 20,156 i.e. 96.9% grievances were successfully resolved.
- 'Nivesh Mitra' inducted 'User Feedback' Module through which it received total 1,01,646 feedbacks; Out of which more than 74,713 applicants i.e. 75% have given their feedback as 'Satisfied'.
- Above feedback module not only collects feedback on overall experience in getting in NOCs in UP but also it also captures the data whether the applicant was asked to physically visit the departments & how was their experience with this online platform.
- No compliance related to Professional Tax in UP and fire license has been made free of cost.





For both these states, below table gives a one to one comparison of the timelines required for an entrepreneur to obtain approvals/clearances required in setting up a manufacturing or services activity in these respective states. These timelines are notified maximum time to be taken for delivery of the services to the applicants as per the right to public service delivery. For most of these services time required in Karnataka is substantially higher than both AP and UP varying in range from 2x to more than 10x.

Clearances Approvals Required	Andhra	Karnataka
(Time taken in Days)	Pradesh ¹⁶	
Change in Land Use	10	30
Fire - No Objection Certificate	15	60
Consent for Establishment Red Category	21	70
Water Connection and Approval	21	42

Table 44 Comparison of SAKALA timelines with that of AP notified timelines

¹⁶ <u>https://www.apindustries.gov.in/APIndus/UserInterface/SingleWindowServicesApplication/Public/EODB.aspx</u>

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Electrical inspectorate statutory approval for drawings	7	20
Factory Plan Approval	7	90
Building Completion Certificate	30	30
Consent for Operation Red Category	21	120
Occupancy Certificate from Fire Services Department	15	45
License for Building and Other Construction Works	Instant	15
Factory Registration/ License	7	90
Registration of establishments deploying inter-state	Instant	15
migrant workmen		
Registration of establishments deploying contractual	Instant	15
workmen		
Boiler Registration Certificate	15	90
Sanction of power supply	7	30

Table 45 Comparison of SAKALA timelines with that of AP and UP notified timelines

Clearances Approvals	Andhra	Uttar	Karnataka
Required (Time taken in Days)	Pradesh ¹⁷	Pradesh ¹⁸	
Fire - No Objection Certificate	15	15	60
Water Connection and Approval	21	15	42
Electrical inspectorate statutory	7	4	20
approval for drawings			
Factory Plan Approval	7	30	90
Building Completion Certificate	30	30	30
Occupancy Certificate from Fire	15	15	45
Services Department			
Factory Registration/License	7	30	90
Boiler Registration Certificate	15	30	90
Sanction of power supply	7	30	30

 ¹⁷ <u>https://www.apindustries.gov.in/APIndus/UserInterface/SingleWindowServicesApplication/Public/EODB.aspx</u>
 <u>https://niveshmitra.up.nic.in/eodb.aspx?ID=dipp19</u>

6. Recommendations and Action Plan

Recommendations detailed in this section are stemming from the observations made above in the detailed assessment. Recommendations are provided for a) Enhancing process and IT efficiency of the services, b) to improve the functioning of existing investor reforms and c) to improve the functioning of the state single window platform.

In section 6.1. below, recommendations are provided for each line department based on some of the key issues highlighted in the executive summary and some leading practices are highlighted for each of the NeSDA assessment parameter, to enhance the usability and utility of the department portals.

In subsequent section i.e. 6.2., recommendations for improvement in functioning of single window system, industrial land allotment and MSME support is suggested based on the feedback received from industry interactions. Lastly section 6.3. provides the immediate action points for the improvement of KUM ebiz Karnataka platform to provide seamless industry services.

State Line Department	Observations	Recommendations
Inspector General of Registration and Stamps	The department's SAKALA adherence and approval ratings are amongst the highest. Its Kaveri portal is quite well- designed contributing to high ease of use and end service delivery.	 The following two measures will help enhance the NeSDA score: 1. Strengthening security measures through a two- factor authentication of users. 2. Providing options for users to track their requests and obtain timely updates on any change in the status of their requests.

6.1. For enhancing process and IT efficiency of services

State Line Department	Observations	Recommendations		
Department of Factories	While the department enjoys high approval rate and above average adherence with SAKALA timelines, two services are end-to-end offline. The ones that are online require some manual touchpoints (such as physical inspections and document verification), especially for service such as Approval of Building Plan.	The department could emulate the AP here where the service such as Factory Plan approval is end-to-end online with minimal manual touchpoints. The intelligent system employed is able to read AUTO-CAD drawings of building/factory layout and provide a compliance/deviations report as per prevalent codes and GOs without human intervention. The automated system has reduced the time taken for plan approval to 5-7 days from previously 25-30 days.		
Bangalore Water Supply and Sewerage Board	Majority of the queries that the department gets is on application processes/procedures. While the department scores high on approval rate, delays in processing are largely attributed to inadequate documentation provided by applicants.	The highlighted issues could be effectively addressed by helping applicants get a better understanding of the application process through online how-to guides and physical helpdesks at its offices. For instance, the Ministry of Environment, Forest and Climate Change has a detailed how-to guide on their portal for applicants applying for the service – "Environment Impact Assessment Clearance"		
Commercial Tax Department	While the department scores 100% in approval rate and SAKALA adherence, its portal where the service is hosted requires considerable improvement in areas such as information security, application request tracking and availability of information in Kannada.	On application status tracking, the portal could emulate features available in Haryana State Portal		

State Line Department	Observations	Recommendations
Karnataka State Pollution Control Board	Department has low score for red category services on SAKALA timeline adherence which is primarily due to higher scrutiny required for such applications. However, for green category, the department officials attributed low SAKALA adherence to back and forth on inspection observations and submission of inadequate supporting documents by applicants.	of consent services to industry more than 3x times faster than
BESCOM	 Department's comparatively low approval and adherence rate has been attributed to following reasons: 1) Mis match of information submitted by applicants such as address, construction stage, bore size etc. 2) Rejection due to nonpayment of applicant fees, non-submission of supporting such as building 	

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State Line Department	Observations	Recommendations
	photo, NOCs from other department 3) Submission of applications in wrong jurisdiction	portal for applicants applying for the service – "Environment Impact Assessment Clearance."
Labour Department	 Labour department's NeSDA assessment score is consistently low primarily due to observations below: 1) Users are unable to effectively track the status of their requests and obtain timely updates 2) Non-availability of website content in Kannada language 3) Non-availability of a feature to log complaints/grievances and provide feedback 4) Inadequate information security 	The portal could emulate features of application tracking from Haryana State Portal and information security from Goa State Portal (see details in the subsequent part of the section)
Drug Control Department	The department's website scores low on information accessibility and ease of use, especially the portal for drug manufacturing license. Users are also unable to effectively track the status of their requests Information security measures need considerable improvement	The portal could emulate features from Meghalaya State Portal such as multiple navigation panes, an effective search function and sitemap for finding the right information without much difficulty.
Directorate of Municipal Administration	Processes and procedures requiring multiple interactions with associated line departments is often cited as a reason for delays resulting in low SAKALA adherence. Multiple interactions owing to inspections and compliance with inspection observations is also seen as contributing to the delay. It should be noted here that one service is end-to- end offline.	of building plans could improve

State Line Department	Observations	Recommendations
		a detailed how-to guide on their portal for applicants applying for the service – "Environment Impact Assessment Clearance."
Registrar of Co-operative Societies	The manual touchpoint in the process (physical verification of documents submitted and any back-and-forth on these documents) often contribute to the delay. The web portal also needs considerable improvement on information accessibility, ease of use and ability of users to track the status of their requests.	Enhancing web-portal to make it more user friendly and introducing a self-certification or notary-verification process for checking the veracity of documents submitted could help address the observed issues.
Bangalore Development Authority (BDA)	Department website needs considerable improvement in terms of information accessibility, ease of use, and information security.	The department's portal requires a complete overhaul to enhance information accessibility and user friendliness. The portal could emulate features of accessibility from Gujarat State Portal, information availability from Kerala State Portal, application tracking from Haryana State Portal and information security from Goa State Portal
Revenue Department	Delay in processing applications attributed to multiple interactions involved with other concerned department officials.	Reduction of manual touchpoints could help. For instance, applicants have to submit a physical copy of notarized affidavit to DC/Taluk case worker. Integrating online service delivery with other concerned departments could help. Integrating online service delivery with other concerned departments could help.

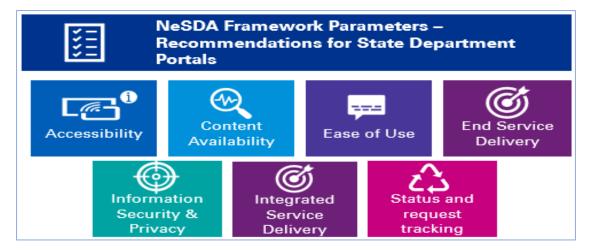
State Line Department	Observations	Recommendations			
Karnataka Fire & Emergency	Inspection noncompliance by applicants and multiple interaction with other line departments were primary reasons for these delays. Services delivered by departments still had manual interventions and offline interactions.	NOCs linked to an intelligent building plan approval system (such as AP's system for factory plan approval), self-certification and centralized, risk-based inspections could help.			
Department of Legal Metrology	nteractions with department officials revealed that inadequate process knowledge, inadequate supporting documents and inspections were primary reasons for delays and rejections.				
Karnataka Industrial Area Development Board	Inspections and ensuing back and forth on compliance of inspection observations are often cited as the reason for delays. Supporting documents are still being submitted through offline modes in many instances. Central tendency measurement for the applications processed indicates department on average requires more than 7x of the sanctioned time for land allotment and 16x of the sanctioned time for BP approval.	h is streamlined owing to the intervention of the State's Single Window System, availability of up-to-date information on land bank, and online land allotment system. Karnataka could emulate these practices. In regards building plan, KIADB could emulate AP's system for factory plan approval (see			
Bruhat Bengaluru Mahanagara Palike (BBMP)	Primary reasons observed for delays were due to inadequate supporting documents submitted by applicants, non-compliance with building by laws, wrong jurisdiction, lack of submission of original documents. Interactions with officials also revealed that offline submission of documents is still prevalent. Also, update to users, on the status of their applications, are provided intermittently i.e., on case-to-case basis.	applications that do not talk to			

State Line Department	Observations	Recommendations
	For occupancy certificate and commencement certificate only, partial data (for 4 out of 10 zones) was made available by the department. For occupancy certificate issuance department takes more than 27x, for commencement certificate issuance more than 9x of the sanctioned time. NeSDA score are not considered due to very low rate of adherence.	inspections could go a long in ensuring timely service delivery.

As an immediate actionable there are services namely Approval of Boilers, Certificate for recognition as Boiler / Boiler Component manufacturer, and Change of Property Ownership these are currently end-to-end offline and should be made available online for the users.

For the rest of the services which has been assessed on the below depicted NeSDA assessment parameters, subsequent section provides overall action plan and recommendations across all these below parameters for these services to improve their efficiency and to offer better stakeholder connect.





 Accessibility: This indicator is related to the availability of multiple navigation routes for services and information, availability of features for users to create personal login on the portal, availability of explicit information on compatible browsers and best screen resolution, listing of the State department portal and its services in National Government Services Portal (NGSP) and availability of features to enable access for people with physical disabilities among others.

To improve user perception and participation, the following recommendations are made:

- Web portals should be usable, accessible, well coded, and mobile-deviceready.
- To improve user accessibility & participation, mobile applications for providing information and availing services of portal should be available.
- Adherence to W3C, GIGW compliance displayed clearly on the portal homepage.
- Portals should be multi device compatible. Being designed using autoformat to adjust to various mobile devices such as tab, iPad, mobile phones etc.

<u>Case in Point:</u> Gujarat state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve accessibility are:

Gujarat State Portal	State portal and services are also accessible through
(<u>https://gujaratindi</u>	National Grievance Services Portal (NGSP) portal
<u>a.gov.in/</u>)	(https://services.india.gov.in/) to facilitate multi-nodal accessibility
	 Users can create a profile and login to the portal, along with a Single
	Sign on feature to sign in through an integrated authentication initiation
	• Key call center nos. are provided in the portal making reaching out for
	assistance or further information simpler
	Installable mobile applications are available that provide information
	and allow availing of portal services
Source: NeSDA Report, 20 aka Evaluation Authori	

- <u>Content Availability</u>: Content availability covers aspects such as the availability of correct information, availability of Statistics about web site usage by users, services information, information about policies of privacy and open data, availability of Search Engine Optimization technique for better content rating, among others. To enhance user satisfaction and participation, the following recommendations are made:
 - Web site content should be made available in Kannada and English.
 - Web sites should be easy to find in top search engines. Hence, it should be optimised by "keywords" so that its visibility increases, and people know about the services provided.
 - To enhance user satisfaction, provision may be made for calling feedback regarding eServices & share results of user feedback.
 - There should be site maps in every portal along with information manual and help desk number to access the services easily.

<u>Case in Point:</u> Kerala state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve content availability are:

Kerala State	Dedicated sections providing list of State Departments with contact details
Portal (https://www.ker	of Ministers & Senior officials along with list of Districts officials with
ala.gov.in/)	contact details
	 Availability of information of last updated timestamp & last updated
	timestamp on each page of the portal as of current year
	Portal follows the Open Data policy, publishing Government data
	for public use. Also uses Search Engine Optimization technique
	for better content rating
	Information on availability of features to receive non-service SMS
	alerts and confirmations to users about portal activities

Source: NeSDA Report, 2019

3. <u>Ease of Use</u>: Ease of use covers indicators related to the existence of a separate 'Contact us' section on the Portal, portal availability on different web-browsers, availability of multiple navigation routes in the portal for services and information, disclosure of service delivery timelines on the website, among others.

"Ease of Use" significantly influences users' satisfaction, their perception on benefits of the system and subsequently their intention to use the system, the following recommendations are made:

- Service delivery portals should have facilities to log Grievances & Complaints on the portal itself.
- Availability of multiple navigation routes in the portal for services and information enhances accessibility and ease of use for citizens to leverage department online services.

<u>Case in Point</u>: Meghalaya state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve ease of use are:

Meghalaya State Portal	•	Presence of Sitemap and multiple navigation routes for services
(meghalaya.gov.in)		& information
	•	Dedicated sections for 'Help', 'Contact Us' and 'What is New' for
		ease of citizens
	•	Availability of 'Search' feature on the portal and information
		about compatible browsers & optimum screen resolutions
	•	Portal available across multiple front-end tools (IE, Chrome,
		Firefox etc.)

Source: NeSDA Report, 2019

4. End Service Delivery: End Service Delivery measures the user's satisfaction with faster delivery of end services, elimination of manual processes, reduction of time/manual effort to obtain a service. It covers aspects such as whether end services are available online or available upon visit to respective department, whether service delivery timelines are published on the website and whether manual processes have been completely done away with.

Therefore, to improve the performance of respective portals, the following recommendations are made:

- Use of Digital tools like Digi-Locker to deliver services like certificates, personal identification id, etc.
- Use of Government cloud account by officers to verify the documents of citizens for all services.
- Wherever possible do away with submission of manual documents

<u>Case in Point:</u> Telangana state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve end service delivery are:

Telangana State Portal	End service delivery is available through multiple modes i.e.,
(https://www.telan	email, online and is downloadable
gana.gov.in/)	Service delivery timelines published on the website
	Manual provision of services have mostly been done away by
	the State for few services
	Reduction of time/manual effort to obtain a particular service fo
	citizens

Source: NeSDA Report, 2019

 Information Security and Privacy: The parameters evaluated hold significance in developing a robust and secure service delivery portal, a portal that users can trust, is simple to use and does not allow any threats to user data.

These provisions increase the trust of citizens in service delivery, which in turn increases adoption and helps improve reach and coverage; the following recommendations are made:

- Service delivery portals should be secured through incorporation of HTTPS protocol and/or third-party security alliances. This would increase users' trust in the service delivery portal.
- Disclaimer and Privacy policy must be clearly stated on all department portals to make users aware of the purpose of collection and usage of their data and to maintain integrity of data transactions.
- To improve user friendliness and to assure citizens of the safety of their data, password status alerts and password reset facility must be enabled for users.

<u>Case in Point:</u> Goa state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve Information security and privacy are:

Goa State Portal	•	Portal hosted on HTTPS protocol and assessed by TPA for online
(https://www.goa.g		security
<u>ov.in/</u>)	•	Clear indication of online security measures implemented on the
		portal through HTTPS, symbols for third party security alliances
		etc.
	•	Password recovery and reset facility are available for the user
	•	Clear Indication of W3C adherence of the Portal on the
		Homepage
	•	Availability of copyright Statements on the Portal

Source: NeSDA Report, 2019

6. Integrated service delivery: Integrated service delivery covers aspects such as whether the website allows multiple channel access for services at different levels, whether service specific content is integrated with data from dependent Departments/data sources and auto populated while submitting service application details online, among others.

This parameter plays an important role in offering services to citizens through an integrated approach which leads to better cooperation between Government agencies and engagement with users.

- Common integrated approach is required across concerned line departments and between all hierarchical levels to provide integrated services to citizens.
- Innovative processes and mechanisms for service delivery, and user engagement as well as empowerment are essential, to make services inclusive and accessible to all groups in the society.

<u>Case in Point:</u> Rajasthan state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve Integrated Service Delivery are:

Rajasthan Services	•	Services can be availed without the need for a physical touch
Portal		point for document submission and verification
(emitra.rajasthan.g	•	Mandated that all applications are submitted online
ov.in/)	•	Single Sign on /Unique ID <mark>(Aadhaar) sign in</mark>
	•	Availability of feature to submit service forms online (PDF or
		web based)

Single integrated payment gateway for all channels

Source: NeSDA Report, 2019

7. <u>Status and Request Tracking</u>: Status tracking of service request raised by citizens includes the ability to obtain timely information on the status of the application, availability of obtaining such updates via SMS and facility to log complaints or provide feedback. Also covers aspects such as existence of a web page providing helpdesk, online support, and call centre for users, availability of information about help line for issues regarding online payments through webpage, SMS alerts for services updates, Information on availability of features to alert the users on each stage of Service Life cycle and Grievance and users getting feedback on their complaints through email or calls. This parameter plays a pivotal role to increase satisfaction among the citizens about

the Government's service delivery, there by fostering active citizen participation. To enable the same, the following recommendations are made:

• An online provision which enables automatic tracking of service requests is recommended. The facility should be accessible from anywhere across the

web, easy to use, and reduce the issue/request resolution time which increases overall productivity.

 `Premium SMS services could be offered as an optional value-added service for applicants to get SMS alert and automatic updates on their mobile for their application status at every stage.

<u>Case in Point:</u> Haryana state portal has adopted multiple good practices, some of the key practices that could be replicated by Karnataka State Departments portals to improve Status and Request Tracking are:

Haryana Services	•	Availability of Ticket / Complaint Number for status tracking and
Portal		future follow-ups
(https://www.harya	•	Availability of feature to track Service Applications/ Requests
na.gov.in/)		online
	•	Service update alerts sent through SMS also web page provide
		help desk, online support, and call center for users
	•	Availability of Information about helpline for issues regarding
		online payments through web page
	~~	

Source: NeSDA Report, 2019

Following action plan is suggested to be adopted for each of the above discussed parameter recommendations and across all the concerned line departments service delivery portals.

Figure 102 Action Plan for State Line Department Portals

Accessibility Parameter – Action Plan for State Department Portals

- Service link provided should be listed in State Department portal or National government services portal.
- · Service should be available both in English and Kannada.
- Contact Information of Government officials/ agency responsible for the provision of specific online services/queries should be listed on the portal.
- · Separate 'Contact us' section should be available on the portal.
- Downloadable forms for provisioning of services which cannot be submitted online should be available on the portal.
- Multiple navigation routes for services and information (like A to Z services Index, Category wise service groups, etc.) to be provided on the portal.
- Feature for users to create personal login profiles or sign in through an integrated authentication initiative such as Aadhaar is to be provided on the portal.
- · Facility for users to register/log in online is to be provided on the portal.
- For registered users, the provision for the user to check details of previously availed services, transaction history etc. is to be made available on the portal.
- Website should be designed using auto format to adjust to various mobile devices like tab, iPad, mobile phones etc.
- · Information about compatible browsers and best screen resolutions is to be provided on the portal.
- The portal should support audio and video playing.
- The portal should be complaint with matrix of Guideline for Indian Government Websites (GIGW)
- · The number of transactions should be displayed on the portal.



Content Availability Parameter – Action Plan for State Department Portals

- Facility for user to provide feedback/comments regarding e-Services should be available on the portal.
- · Information about results of user feedback about online services should be displayed on the portal.
- Separate section for Help and FAQ to be provided on the portal.
- · The Site map is to be made available on the portal.
- · Information of last updated time-stamp is to be displayed on each page of the website.
- The website should have relevant and updated contents.
- Statistics about website usage by users (no. of visitors/average time spent per visitor, etc.) should be displayed on the portal.
- Statistics about transaction count of services availed by users is to be displayed on the portal.
- Information about how to avail electronic/digital signature facility for availing the services should be provided on the portal.



Ease of Use Parameter – Action Plan for State Department Portals

- · Service application forms should be downloadable online.
- eServices should be available within two-clicks from homepage.
- A What's new section which details the changes in the website should be provided on the portal.
- · Website should be easy to find in top search engines.
- Procedures describing how to fill and submit downloadable forms for provisioning of services (How-to Guides, Audio/Video Presentations etc.) should be available on the portal.
- · Search feature should be provided on the portal.
- · The website should be available on different web-browsers.
- The website should provide for complaints, resolutions etc. on various aspects of the e-service provided.
- The website should have built-in facility to populate content relevant to user's recent activity/interest.
- The Department/service portal should have a defined internal work-flow to process a service request.
- · The user manual should be available to guide the users on the portal



End Service Delivery Parameter – Action Plan for State Department Portals

- End service should be available through email, online (downloadable).
- · End service should be available upon visit to respective department/concerned office etc.
- · OTP facility should be available for user authentication during final service delivery.
- · Service delivery timelines should be published on the website.
- Manual provision of services should be completely done away by the State.



Information Security & Privacy Parameter – Action Plan for State Department Portals

- Mobile alerts for unauthorized access to user profile, password changes etc. are to be introduced on the portal.
- The web page should be assessed by Third Party Auditor (TPA) for the online security.
- Clear indication of online security measures implemented on the webpage through HTTPS, Lock Symbol on the browser, symbols for third party security alliances etc. is required on the portal.
- Clear Indication of W3C Compliance of the webpage is required on the Homepage.
- The personal data of the citizens should be safeguarded through the security policy of the Government
- · The webpage should mandate two factor authentication for username & password.
- The user should be intimated by email on password expiry, reset, change in password, change in user profile etc.



Integrated Service Delivery Parameter – Action Plan for State Department Portals

- Feature to submit service forms online (PDF or web based) should be provided on the portal.
- · Facility to make Online payments should be available on the portal.
- Digital signature facility should be available on the portal.
- The website should allow multiple channel access for services at different levels (registration and application on website, payments on mobile etc.).
- Single payment gateway for all channels should be provided on the portal.
- The service should be availed without the need for a physical touch point for document submission and verification and mandate that all applications are submitted online.
- Single Sign on/Unique ID(Aadhaar) sign in should be provided on the portal.
- The available citizen services should be linked to Digital Locker.
- · Facility to make online payment towards services availed on webpage using mobile device should be provided.
- The webpage should provide for various payment options like credit, debit, cash card, internet banking, mobile wallet, specific payment methods such as Rupay, BHIM etc. for availing a service.
- The webpage should be integrated with social media Apps like Twitter, Facebook etc.
- Service specific content should be integrated with data from dependent departments/data sources and autopopulated while submitting service application details online.
- · Mobile application should be available for each of the services



Status and request tracking Parameter – Action Plan for State Department Portals

- Feature to track service applications/requests online should be provided on the portal.
- Facility to log grievances/complaints should be provided on the portal.
- Ticket/Complaint Number for status tracking and future follow-ups should be provided on the portal.
- Service update alerts should be sent through SMS.
- Availability of features to alert the user on each stage of Service Life cycle and Grievance/Complaints (Service Request Receipt, Status Update, Service fulfilment etc.) through SMS or Calls should be introduced on the portal.
- The user should get feedback on their complaints like email, call back, etc.
- Information about helpline for issues regarding online payments through webpage should be provided on the portal.
- The webpage should provide for helpdesk, online support and call centre for users.

Government of India has developed standards and guidelines for various aspects of online service delivery (http://egovstandards.gov.in/). Adherence to these standards shall increase satisfaction among the citizens about the Government's service delivery, there by fostering active citizen participation, increasing the trust of citizens in any Government service delivery, which in turn will increase adoption and helps improve reach and coverage. Some of the standards that may be adopted as quick wins are as below:

- > Adherence to W3C, GIGW compliance for all portals.
- > Adherence to ePraman, as a mark of security assurance.
- Standardisation testing and quality certification (STQC) certified portals for security compliance.

6.2. For Functioning of Investor Business Reforms

Recommendations for functioning of investor related reforms is suggested based on the feedback received from industry interactions. Same had been categorised under categories namely functioning of single window system, industrial approvals & land allotment and support provided for MSME. Details are listed as below:

- 1. For Efficient Functioning of Single Window System:
 - KUM and regional DICs need to function more cohesively. While investment ticket sizes of KUM and DICs vary significantly, KUM could help DICs in adopting leading practices, streamlining their processes and bringing their services online. The latter becomes especially important given that DICs are mostly offering their services through offline mode. Therefore, it could help to bring both KUM and DICs on a single, online platform to work in an integrated and a seamless manner. For instance, emulating AP's single window, Karnataka could adopt one portal, one email id and one number approach for catalyzing investments across the State.
 - KUM should provide investors with a unified access to multiple regulatory authorities by liaising with all concerned line departments and taking responsibility for obtaining all necessary clearances in a time-bound manner (in other words ensuring strict adherence with SAKALA timelines). Further, by integrating eBiz portal with all concerned line department portals, KUM could provide all these clearances without any physical touchpoints. For instance, AP's Single Desk Portal helps investors to obtain more than 39 clearances/approvals from 19 line-departments without any physical touch points. Similarly, UP's Nivesh Mitra has implemented stringent mandates such as 'One Time Query within 7 days of application received' and 'Application to be received by Nivesh Mitra Only' & 'mandatorily digitally signed NOC issuance'.

- KUM's ebiz portal could deploy a chatbot or information wizard to ensure that investors get a quick view of all the clearances/NOCs that are relevant to their organization, industry and location. For instance, Kerala's Single Window has a chatbot to guide investors and AP's Single Desk Portal has an information wizard for this purpose.
- Business facilitation rules (such as SAKALA) could be strengthened to provide monitoring and facilitation agencies such as SAKALA mission more teeth in the form of powers to perform audit of line departments to assess adherence with SAKALA timelines and the challenges thereof; levy and collect penalties from line departments for non-adherence; and take appropriate action based on investor grievances pertaining to specific line departments.
- On the issue of investor grievances, KUM should provide a centralized mechanism to address all grievances, concerning all line departments, of investors that have gone through KUM/DIC. eBiz portal could be effectively utilized as a channel for investors to record their grievances without any physical touchpoints (detailed recommendations for eBiz portal is provided in the subsequent section). For instance, AP's Single Desk Portal offers a single form for grievance redressal across multiple line departments. Additionally, KUM could provide investors with a hotline, backed by a dedicated call center, to help address complex investor queries.
- KUM/DICs should also proactively reach out to investors from time-to-time to understand their issues/challenges. For instance, AP's Single Window has a Governance Cell that proactively reaches out to investors for feedback and works with line departments on process improvements to address their issues/conerns.
- Single window meetings, at the district level, must be conducted regularly by providing at least one week notice to all the concerned parties, including local industry associations, with identified agenda points.
- Sub-committee meetings of DICs must be held regularly in industrial consultation and should be utilised for agenda setting of single window meetings.

- Procedures and the minutes of all the district single window meetings must be available on DIC website and notice board within 2 days of conclusion of such meetings.
- Regular updates must be provided for an applicant digitally once every two weeks to keep them appraised of the progress.
- DIC premises could sport display notice boards/circulars to advertise its functions, investor services, SAKALA timelines of these services and information on nodal officers at respective line departments who will help facilitate timely service delivery.

2. For Efficient Industrial Approvals and Land Allotment:

- In order to ensure that any delay in land allotment does not adversely impact the projects feasibility, state government could consider capping the escalation cost levied by KIADB/KSSIDC at the time of execution of lease cum sales agreement (LCSA) at a reasonable percentage of the indicative allotment rate.
- In order to strengthen the state industrial approvals process and ensure no delays in awarding of NOCs/approvals to investors. A system could be put in place where all the applied approvals are considered deemed approved after mandated SAKALA timelines.
- In cases of land conversion required in notified nonindustrial areas in the state, a process of automatic conversion of agricultural land for industrial purposes could be considered.
- Number of empanelled architects/engineers with state institutions for more than 2 acres of land are primarily in Bangalore, it is suggested that such empanelment must be increased to include local competent architects/engineers from every district.

- Land allotment screening committee meeting must be regularly held at district level and taluk level. Minutes of all such meetings must be made available by state institutions leading the meeting i.e. KIADB, KSSIDC etc.
- Inadequate bandwidth by KIADB development officers has been cited by investors as key reason for delays in inspections/approvals. Thus, appropriate increase in staffing of KIADB development officers is suggested to ensure availability of bandwidth.
- State administration should strengthen core and trunk infrastructure including connecting roads, approach roads, truck lots, water and underground drainage, effluent treatment plant, common treatment plant, parking bays etc. in industrial areas of the state.
- Once land allotment by state institutions like KIADB and KSSIDC is done, State single window system should facilitate Khata Transfer as well avoid ambiguity and delays in allotment.
- User interfaces for department website providing industrial approvals (e.g. KSPCB, KIADB, ESSCOMs etc.) must be made user friendly and content should be available in Kannada specifically for KSPCB XGN software.
- Land bank information provided by state institutions must be updated every month with a display of time stamp to ensure it captures and reflects the onground realities of allotted lands.
- Land allotment process by any of the state institutions must be undertaken only after development works (such as approach roads, plinth etc.) are duly completed.
- Consent fees levied from investors must be linked to category of business rather than just the value of investments.
- A recent NITI Aayog report observed that average time taken to get all the construction related approvals in Karnataka is 140 days and similar results have been found out from this evaluation detailed in above sections. To improve this scenario, state can look to further refine its SAKALA timeline and process efficiency by adopting the Hong Kong approach (detailed below) which allows just 9 to 10 Weeks whereas Karnataka allotted time line is more Karnataka Evaluation Authority Page 176

than 24 weeks. Adoption of below process efficient approach could speed up the process of construction permits in the state by three times.



Construction Permits – Karnataka vs Andhra Pradesh vs Hong Kong

3. For Enhanced MSME Support:

In February 2020, the Ministry of Corporate Affairs (MCA) introduced SPICe+

 an integrated Web form offering 10 services by 3 Central Government
 Ministries & Departments (Ministry of Corporate Affairs, Ministry of Labour & Department of Revenue in the Ministry of Finance) to help ease the process
 of establishing a new business for entrepreneurs. The Government of
 Karnataka could consider integrating some of its own services on the portal
 to help entrepreneurs. For instance, Maharashtra has integrated the
 "professional tax registration" service offered by its Department of Goods
 and Services Tax.

- KUM/DICs could provide a dedicated single window system for MSME startups to act as a one-stop-shop for securing all necessary NOCs/clearances. All these clearances could be facilitated through eBiz portal without any physical touchpoints, thereby enhancing the ease of starting a business for entrepreneurs.
- Given the COVID-19 pandemic, increasingly MSMEs are facing a cash crunch due to delayed payments from buyers. In order to address this, the Government of Karnataka could consider one of the recommendations of *UK Sinha Expert Committee on MSMEs on* increasing the number of MSE Facilitation Council (MSEFC) and strengthening them with required manpower to monitor delayed payments to MSMEs. The State currently has four such facilitation centres in Bangalore, Belagavi, Kalburgi and Mysuru.
- The Government of Karnataka could also consider cash infusions/incentives and waivers to help the MSME sector tide over the pandemic. For instance, the Government of Andhra Pradesh has provided a waiver on fixed electricity costs for three months to MSME units in the State.
- In case of land allotment, the Government could encourage banks and financial institutions to consider LCSA executed with state institutions as a personal guarantee for availing loans by MSMEs. Currently, investors at our FGDs opined that banks and financial institutions also ask for personal guarantees to avail loans.
- District industries center should undertake exhaustive and inclusive industrial consultation (in form of workshops, conferences, seminars, knowledge exchange etc.) with MSME and SSI representative industry bodies at regular interval. This would develop know how of these units and ensure officials are appraised of on ground situation.

6.3. For Functioning of Karnataka Single Window (eBiz) Portal

In this section we detail the recommendations for further improving the functionalities of state's single window portal.

DPIIT has released four editions of its assessment results¹⁹ under the State Reforms Action Plan. It has announced its latest assessment parameters for the next ease of doing business ranking in the country in September 2020 along with the latest rankings. In the latest assessment, i.e., the fifth edition of the exercise, DPIIT has proposed a 301point State Reforms Action Plan.

The Action Plan is spread across 24 reform areas and seeks to promote sector-specific approach to create an enabling business environment across various sectors in the country. The various sector includes Trade License, Healthcare, Legal Metrology, Fire License/NOC, Cinema Halls, Hospitality, Telecom, Movie Shooting and Tourism.

Juxtaposing our recommendations in preceding sections with the latest action plan released by DPIIT, the table below highlights the immediate actions points to be undertaken under each reform area for state single window portal to plug the gaps and fully implement reforms proposed by DPIIT.

SI.	Area	Immediate Action Points to improve the
No.		functioning of State EoDB through eBiz
1	Investor	 Make provisions for publishing of draft
	Enablers	business regulation online and invite public
		comments/feedback on the same prior
		enactment.
		 Ensure a GIS-based system provides details
		on connectivity infrastructure, utility

Table 46 Recommendations for Karnataka Single Window system

¹⁹ https://eodb.dipp.gov.in/

SI.	Area	Immediate Action Points to improve the
No.		functioning of State EoDB through eBiz
		 infrastructure, truck infrastructure for all of the State's industrial estates Introduce a chatbot on eBiz portal to address basic investor queries Introduce an online grievance handling system for more complex investor queries across KUM and regional DICs on eBiz portal. Ensure there is a single database of all investor queries received by KUM/DIC across the State and a public dashboard is available that indicates whether these queries were addressed within 15 days
2	Online Single Window System	 Provide services such as registration/renewals/approval/license for factories/boilers, labour, environment, fire and safety, electricity connection, water connection, and other industry services through eBiz/State single window portal. While the links for these services, including how-to guides for accessing these services are on the eBiz portal, online applications for these services are not through eBiz portal. Users are only directed to the respective department's portal for applying for a specific service. It would be better for investors if the portal could emulate Seva Sindhu model where users can apply for many G2C services

SI.	Area	Immediate Action Points to improve the
No.		functioning of State EoDB through eBiz
No. 3	Land Information System	 functioning of State EoDB through eBiz via a single portal. eBiz could be a similar hub for all industry services. Provide an online dashboard that displays statistics across all the aforementioned industry services offered via eBiz portal such as applications received, approved and mean time taken for approval. Address the issue with the land Information System (LIS) in the eBiz portal. It does not seem to be working adequately. Provide an integrated land/property related record of ownership and encumbrances through the LIS system data of land transaction deeds for last 20 years at all sub-registrar offices Updated Record of Rights (ROR) at all revenue department offices (date of mutation) Data of property tax payment dues for all
8	Paying Taxes	 III. Data of property tax payment dues for all urban areas IV. Revenue court case data (case number, date of filling, status, parties involved) V. Civil court case data (case number, date of filling, status, parties involved) VI. Integration with Central Registry of Securitization Asset Reconstruction and Security Interest (CERSAI) Publish a list of all state, municipal and panchayat levies including information pertaining to rates and tariff levied by the state
9	State Excise	 and local bodies. Provide a public, online dashboard for application submission and approval granted for brand registration, label registration, license for local sale, import and export

SI.	Area	Immediate Action Points to improve the
No.		functioning of State EoDB through eBiz
		permit of spirit from state excise. Also provide
		time taken for approval (Mean and Median).
11	Central	 Make available all inspection reports, within
	Inspection	48 hours of the inspection, via the Central
	System	Inspection System on eBiz portal. Users must
	oystem	be able to access such reports for at least the
		last three years. For instance, a similar system
		available on AP's Single Desk Portal, provides
		digitally signed inspection reports across
		multiple line departments upon keying in a
		unique inspection ID
		 Address the issue with the Inspection
		Dashboard on the Central Inspection System
		hosted on eBiz portal. It does not seem to be
		working.
		 Ensure this Inspection Dashboard not only
		provides number of inspections carried out by
		department, but also lists the establishments
		inspected, name of the inspector/s and date
		on which the inspection was carried out.
		bhoards must be undated regularly (weekly/fortpightly)

All these discussed public online dashboards must be updated regularly (weekly/fortnightly).

7. Annexures

- NeSDA results for each of the service is captured in appropriates excels and detail dummy login service flow has been shared separately online along with Interim Report submitted to KEA.
- Details of all the focused group discussion, in depth interview responses (Line Departments/DIC/KUM) has been shared separately online along with Interim Report submitted to KEA.
- Details of all the data on service applicants received and its detailed analysis files has been shared separately online along with Interim Report submitted to KEA.

7.1. Details of the regression analysis

The statistical significance of associations between process efficiency and IT enablement (indicated by NeSDA scores), and between stakeholder connect and IT efficiency were also explored. However, from the sample size, these two associations were not found to be statistically significant (see figures on the next page to obtain a snapshot of the regression analysis). This seems contrary to common knowledge that IT enablement leads to better quality of service and greater timeliness in delivery. In fact, there are many research papers in the secondary domain indicating this correlation. For instance, one paper indicates that IT enablement could improve governance of the public services²⁰. Another one highlights that by digitizing the current processes, public administration could expand its opportunities of providing additional services to the citizens²¹. A third paper outlines the relationship between public service quality and e-governance.²². Therefore, a larger sample size or more data points may be needed to explain the relationship between 'IT enablement' and 'process efficiency,' or for that matter, between 'IT enablement' and 'stakeholder connect.'

²² Paper titled: 'The Impact of E-Government System on Public Service Quality in Indonesia', published in European Scientific Journal December 2017 edition Vol.13, No.35
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²⁰ Paper titled: 'Public Service Delivery: Role of Information and Communication Technology in Improving Governance and Development Impact', published by Asian Development Bank, March 2014.

²¹ Research Paper titled: "Improving the efficiency of public administrations through business process reengineering and simulation: A case study", Journal name: Business Process Management Journal, Publication date: April 2015.

SU	MMARY OUT	PUT OF REGRE	SSION BE	TWEEN S	AKALA ADHER	ENCE & NeSI	DA SCORES	
Regression St	atistics							
Multiple R	0.03025376							
R Square	0.00091529							
Adjusted R Square	-0.02231924							
Standard Error	0.23351591							
Observations	45							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.002148116	0.00215	0.03939	0.843606517			
Residual	43	2.344776328	0.05453					
Total	44	2.346924444						
		Standard						
	Coefficients	Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.57493127	0.107467017	5.34984	3.2E-06	0.358203369	0.7916592	0.358203369	0.79165916
NeSDA Score	0.029265	0.147447078	0.19848	0.84361	-0.26809037	0.3266204	-0.268090368	0.32662038

	SUMMA	RY OUTPUT OF F	REGRESSI	ON BETW	EEN APPROVAL	RATE & NeSD	A SCORES	
Regression Stat	istics							
Multiple R	0.14247							
R Square	0.0203							
Adjusted R Square	-0.0025							
Standard Error	0.19108							
Observations	45							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	0.03252596	0.03253	0.89088	0.35051313			
Residual	43	1.569931818	0.03651					
Total	44	1.602457778						
(Coefficient	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.7877	0.08793563	8.95767	2.2E-11	0.610358834	0.965037034	0.610358834	0.965037034
NeSDA Score	0.11388	0.120649591	0.94386	0.35051	-0.129436423	0.357189757	-0.129436423	0.357189757

7.2. Compliance with observations from the Technical Committee

SI.	Observations	Compliance
No.		
1	Give the details of procedure followed in Single Window and hurdles there in	 Incorporated. Please refer to the following sections and pages: "Executive summary" section and "Other observations" subsection; pages 21 to 23 "Business reforms in Karnataka" section and "Background" subsection; pages 105 to 107 "Assessment of KUM/DICs" section; pages 119 to 121 "Recommendations" section and "For functioning of investor business reforms" sub-section; pages 149 to 158
2	Give the best practices across the Departments and Single Window System	 Incorporated. Please refer to the following sections and pages: "Recommendations" section; pages 131 to 160 "Recommendations" section and "For functioning of investor business reforms" sub-section; pages 149 to 158 "Case studies – EoDB best practices" section from 122 to 130

SI.	Observations	Compliance
No.		
3	Give the details of reduction of manual touchpoints by porting the service end-to end.	 Incorporated. Please refer to the following sections and pages: "Executive summary" section and "Key observations from the study" sub-section; pages 13 to 16 "Service delivery assessment for State departments" section; pages 35 to 104 "Recommendations" section and "For enhancing process and IT efficiency" sub-section; pages 131 to 148
4	Clarification about compliance to 672 services	It is understood here that the Technical Committee is referring to compliance with 301 areas identified under State Reforms Action Plan (SRAP). As per the scope of the study, we have only commented on Karnataka's Business Reforms Action Plan (BRAP). However, we have provided recommendations in section 6.3 on page on page 175 keeping in mind the 301-point SRAP.
5	Provide the analysis of gap, requirements and action	Incorporated. Please refer to the following sections and pages:

SI.	Observations	Compliance		
No.				
	points for major Industrial services for Best State and Karnataka	 "Recommendations" section and "For enhancing process and IT efficiency" sub-section; pages 131 to 148 "Recommendations" section and "For functioning of investor business reforms" sub-section; pages 149 to 158 "Case studies – EoDB best practices" section from 122 to 130 		
6	Revise the report as per comments provided by KUM	Incorporated. Compliance against comments provided by KUM included in the subsequent annexure.		
7	 In the recommendations section include: i. Al to be used for land allotment ii. Implementation of call center and grievance redressal system under single window with 24/7 services iii. Online approval to be replicated in other departments similar to BBMP 	 Incorporated. Please refer to the following sections and pages: "Recommendations" section and "For enhancing process and IT efficiency" sub-section; pages 131 to 148 "Recommendations" section and "For functioning of investor business reforms" sub-section; pages 149 to 158 "Recommendations" section and "For Functioning of Karnataka Single Window (eBiz) 		

SI.	Observations	Compliance
No.		
	iv. Intelligent chatbot to be	Portal" sub-section; pages 155 to
	added for prospective	158
	investors	
	v. Revision of SAKALA	
	norms	

7.3. Compliance with observations from KUM

SI.	Reference	Observations	Compliance
No.			
1	The sentence	This report is a final	The reference to 2016
	starting with	outcome of the analysis of	Niti Ayog report has
	"These	the survey data	been removed in this
	findings" on	collected during 2016. The	section. Please refer
	page no. 20	comment may or may not	to the "Other
		be relevant to present	observations"
		context	section on page no.
		(March 2019 to April2020)	21
2	The sentence	In-principal approval is an	The reference to in-
	starting with	end-to-end online system	principal approval
	the "Services		being offline has
	for		been removed.
	KUM/DIC"		Please refer to
	Page no. 22		"Other
			observations"
			section on page 21

SI.	Reference	Observations	Compliance
No.			
3	The sentence	It depicts that major state	The sentence has
	starting with	departments (78%) are	been adequately
	"Majority of	accepting	modified to indicate
	investors" Para	offline applications.	that while majority of
	2; Point no: 3		the services
			assessed as a part of
			the study were
			online, the
			awareness of this is
			quite low amongst
			investors
4	The sentence	DPIIT has evaluated 187	n case of BRAP 2020,
	starting with	business reforms (reverse	DPIIT has evaluated
	"The latest	mapped to previous year	180 business reform
	ranking" Para	assessment) DPIIT has	areas across 12
	2; Page 28	covered 12 reform areas	business regulatory
		(In report it is 45 areas)	areas. Accordingly,
			corrections have
			been made. Please
			refer to "relevant
			literature for the
			study" section; para
			2 on page 29
5	Figure 6, page	Clarity is required on the	The sentence has
	no. 32	sentence "No nomination	been removed from
		was provided by KUM"	Figure 6. Please refer
			to "field survey
			activities and

SI.	Reference	Observations	Compliance
No.			
			limitations" section
			on page no. 33
6	Section 3.6,	As per department portal,	The service was
	para 2	the service "Registration	found to be delivered
		of building and other	via Seva Sindhu
		construction workers" is	portal and not e-
		online and not offline	labour portal.
			Accordingly, the e-
			service was assessed
			and corrections
			made in the ratings
			and observations.
			Please refer to
			section 3.6 "Labour
			department," page
			nos: 58 and 59
7	Section 4	It was observed that KUM	The section on
	"Business	was considered as the	assessment of
	Reforms in	only reason behind fall in	KUM/DIC is de-
	Karnataka" and	the ranking. State has	coupled from
	sub-section	scored 100% in the	"Karnataka EoDB
	4.3.2,	implementation score but	Ranking" section.
	"Karnataka	feedback methodology	This way readers will
	EoDB	which comprise of many	not associate the
	rankings,"	gaps, were not	decreased ranking
	page no: 116		with KUM. Further, it
			has been elaborated

SI.	Reference	Observations	Compliance
No.			
		highlighted. Neither, the	that methodology for
		awareness gaps are	BRAP 2020 was
		flagged in the findings.	different and the
			scores do not
			represent reforms
			implemented, but
			investor feedback on
			these reforms.
			Please refer to
			section 4.3.3
			"Karnataka EoDB
			Ranking 2020" on
			page no. 118
8	Section 6.3;	Below mentioned reform	The table; table no:
	"For	areas are not related to	26; has been
	functioning of	Single Window System so	changed to include
	Karnataka	it should not be part of this	recommendations in
	Single Window	section where report is	only those areas that
	(eBiz) Portal;"	recommending eBIZ to	are pertinent to eBiz
	Pages 152 to	incorporate the same	portal. Please refer to
	159	— Land administration	section 6.3 "For
		and transfer of land	functioning of
		and property	Karnataka Single
		— Change in Land Use	Window (eBiz)
		— Environment	portal;" Table 26 on
		Registration Enablers	pages 155 to 158
		— Labour Regulation	
		Enablers	

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SI.	Reference	Observations	Compliance
No.			
		— Obtaining Utility	
		Permits	
		— Paying Taxes	
		— State Excise	
		— Construction Enablers	
		— Inspection Enablers	
9	Table for	Karnataka has also	The table on leading
	leading	implemented the reform	practices has been
	practices	and online system is	removed since
	adopted by	available for	Karnataka has also
	other States	the same with timelines	implemented many
	(Construction	notified under SAKALA so	of the leading
	permits, labour	it's not clear what to take	practices
	reforms,	from this leading practice	
	environmental		
	reforms)	Karnataka has also	
		implemented the reform	
		and same system is being	
		used as Gujarat so what's	
		the learning from this	
		leading practice	
		Karnataka has also	
		implemented this reform	
		as desired by DPIIT, but it	
		was not highlighted. It is	
		also missing that how	

SI.	Reference	Observations	Compliance
No.			
		Rajasthan, Maharashtra,	
		and other states are	
		different than Karnataka	
		for this reform. It has been	
		mentioned that 2) " Every	
		commercial dispute	
		greater than Rs. 7 crore fall	
		under the jurisdiction of	
		commercial court"	
		However, this has been	
		amended on March 03,	
		2018. Now "The Ordinance	
		has brought down the	
		specified value of a	
		commercial dispute from	
		INR 1 crore to INR 3 Lakh"	
10	Section 3.1	NeSDA assessment for the	All the identified
	BBMP; section	parameter of End Service	corrections to the
	3.2 BDA; 3.15	Delivery:	NeSDA assessment
	Directorate of	Trade License (BBMP):	of services – such as
	Municipal	NeSDA score for this	Trade License
	Administration;	service is 100%, whereas	(BBMP), Tree Cutting
	3.16 Registrar	final certificate	(BBMP), Registration
	of Co-	is also not available	of Societies ,
	Operative	online, investor is	Possession
	Societies	expected to visit	Certificate (BDA), and
		respective Medical Health	Building License

SI.	Reference	Observations	Compliance
No.			
		Officer to physically	Issuance (DMA) – has
		collect the final certificate:	been made.
		Tree Cutting (BBMP):	
		NeSDA score for the	Please refer to
		service is 100%, whereas	Section 3.1 BBMP;
		mode of end service	section 3.2 BDA; 3.15
		delivery is offline and	Directorate of
		online both which creates	Municipal
		ambiguity or subjectivity.	Administration; 3.16
		There's no OTP based	Registrar of Co-
		authentication framework	Operative Societies
		available.	
		The Registration of	
		Societies (Registrar of	
		Societies): In the user	
		manual, it is mentioned	
		that "Form of application	
		for the registration of	
		society shall be as per	
		Schedule A of rule 3 of the	
		Karnataka Societies	
		Registration Rules 1961 to	
		be submitted at the	
		counter by one of the	
		subscribers" which	
		reflects the physical	
		touch points in the process	

SI.	Reference	Observations	Compliance
No.			
		NeSDA assessment for the	
		parameter of End Service	
		Delivery:	
		Trade License (BBMP):	
		NeSDA score for this	
		service is 100%, under this	
		category but there is no	
		login id or Aadhaar linked	
		login is provided, neither it	
		requires any email/SMS	
		based verification	
		framework. It is highly	
		unlikely to score 100% on	
		this parameter.	
		Additionally, final	
		certificate is also not	
		available online neither it	
		is digitally signed,	
		investor is expected to	
		visit respective Medical	
		Health Officer to	
		physically collect the final	
		certificate.	
		Possession Certificate	
		(BDA): NeSDA score for	
		component is 0%, but this	

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SI. No.	Reference	Observations	Compliance
		service is being provided	
		through Seva Sindhu	
		portal which is Aadhaar	
		linked service delivery	
		framework so it cannot	
		score 0% under this	
		category.	
		Building License issuance	
		(DMA): NeSDA score for	
		this service is 100%, but	
		there is no integration with	
		essential services (Such as	
		Fire, AAI, ESCOMs, Water	
		Connection and Labour	
		services) to ensure the	
		service deliver for Building	
		License.	

7.4 Compliance with observations from independent evaluator

SI.	Observations	Compliance
No.		
1	Median generally lies	In the graphs/tables on SAKALA
	between Mean and Mode.	timelines, values for only mean are
	However, it is not the case in	shown. Mode is not computed or

SI.	Observations	Compliance
No.		
	the information presented	shown in these tables or figures.
	on page 48 and page 52	However, all values for mean, across
		all the 17 departments, have been
		double-checked and corrected, as
		required. Please refer to section 3,
		"service delivery assessment for
		state departments' pages 38 to 121.
2	The study was expected to	Incorporated. A regression analysis
	employ experimental	of three critical parameters on which
	method to generate data.	departments/services are assessed –
	Provide some explanation in	such as 'process efficiency,' 'IT
	this context	enablement' and 'stakeholder
3	The study is also expected to	connect' – is now included in
	employ various statistical	Executive Summary section, under
	tools like Correlation and	the heading 'Other observations
	Regression.	(inter-departmental analysis and
		investor perception)', from pages 19
		to 21
4	Sample size for the opinion	Incorporated. Figure 6 in section 2.3
	survey was supposed to be	'field survey activities and limitation'
	120. It is not clear what was	on page 36 has been revised to
	the actual sample size was	indicate that opinion survey was
		conducted on a restricted sample of
		51 responses gathered from active
		members of industry associations,
		instead of KUM applicants, based on
		KEA's suggestions.

SI.	Observations	Compliance
No.		
5	The Third Chapter contains	Incorporated. A table summarizing
	large number of diagrams	facts and figures for each department
	and attempts to provide	is included at the end of each sub-
	different aspects in a single	section of section 3, 'service delivery
	diagram. This can be	assessments for state departments,'
	furnished in a tabular format	from pages 38 to 121. Also, all
		graphs in section 3 have been
		checked to ensure that numbers are
		not overlapping each other.

7.5 Terms of Reference of the Study

<u>Terms of Reference for the study on Evaluation of Functioning and</u> <u>Effectiveness of industry related service modules of major Government</u> <u>Departments in promoting investor friendly business environment for</u> <u>industries in Karnataka State (2018-19)</u>

1. Title of the Study:

Evaluation of Functioning and Effectiveness of industry related service modules of major Government Departments in promoting investor friendly business environment for industries in Karnataka State (2018-19).

2. Department Implementing the Scheme

Department of Industries & Commerce & Karnataka Udyog Mitra

3. Background & Context

India is in a process of rapid transition towards an industrial economy. The new industrial strategy includes promotion of medium and small enterprises along with large industries. The country is on the threshold of major reforms and is poised to become the third-largest economy of the world by 2030. India offers the 3 'Ds' for business to thrive— democracy, demography and demand. Add to that a tech-savvy and educated population, skilled labour, robust legal and IPR regime, and a strong commitment to calibrated liberalization — India is a destination that foreign investors cannot overlook. India's manufacturing sector has evolved through several phases - from the initial industrialisation and the license raj to liberalisation and the current phase of global competitiveness. Today, Indian manufacturing companies in several sectors are targeting global markets and are becoming formidable global competitors. Many are already amongst the most competitive in their sectors.

Make in India is a major new national programme of the Government of India designed to facilitate investment, foster innovation, enhance skill development, protect intellectual property and build best in class manufacturing infrastructure in the country. The primary objective of this initiative is to attract investments from across the globe and strengthen India's manufacturing sector. It is being led by the

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Annexures

Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India. The Make in India programme is very important for the economic growth of India as it aims at utilising the existing Indian talent base, creating additional employment opportunities and empowering secondary and tertiary sector. The programme also aims at improving India's rank on the Ease of Doing Business index by eliminating the unnecessary laws and regulations, making bureaucratic processes easier, making the government more transparent, responsive and accountable.

Why the ease of doing business matters?

It essentially lies in the fact that there are important and well-researched linkages between the doing business climate (or the business regulatory environment), job creation, the firm-size distribution in the industry, and the level of economic activity. A poor business environment results in the country failing to realise its true growth potential. It may also result in specialisation that is contrary to the country's comparative advantage.

Doing Business advocates for both regulatory quality and efficiency. It is important to have effective rules in place that are easy to follow and understand. To realize economic gains, reduce corruption and encourage SMEs to flourish, unnecessary red tape should be eliminated. However, specific safeguards must be put in place to ensure high-quality business regulatory processes; efficiency alone is not enough for regulation to function well. Doing Business exposes cases with evident discrepancies between regulatory quality and efficiency, signalling to regulators what needs to be reformed.

Studies have pointed out that merely reducing the time taken to grant approvals for restaurants from nine months to three months, the states will accrue an additional revenue of Rs 38.76 crore, and the sugar millers/distillers will receive an additional revenue of Rs 51 lakh, which could potentially find its way towards payment of dues of sugarcane cultivators. These calculations indicate that by merely

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reducing the amount of time for issuing licence, and the government incurs no expense in doing so, there is a significant economic gain. (Pahle India Foundation, An Integrated Value Chain Approach to Ease of Doing Business: A Case Study of Sugar, Alco-Bev, and Tourism Business Standard Sept. 2018) Fewer procedures quick approvals and lower levels of minimum capital, for example, are positively and significantly associated with the process of starting a business. Where procedures are more complex or unclear, the likelihood of corruption and illegal practices is also likely to be higher. Further, there are benefits to companies of formal registration, such as greater access to new equipment and a larger scale of operations, which can lead to increased competitiveness and productivity.

Thus, there is high correlation between the business regulatory environment and income per person across time and space indicating the possibility that the improvement in business environment will increase the industrial activity and the per capita income. (EODB An enterprise survey of Indian States 2017 NITI & IDFC p-14).

The performance of the countries on Ease of Doing Business is measured by the World bank annually based on the parameters that affect the industrial environment. Doing Business 2019 measures the performance of the countries based on some standard indicators. A nation's ranking on the index is based on the average of the following indices:

- Starting a business Procedures, time, cost and paid-in minimum capital to start a limited liability company
- Dealing with construction permits Procedures, time and cost to complete all formalities to build a warehouse and the quality control and safety mechanisms in the construction permitting system
- Getting electricity Procedures, time and cost to get connected to the electrical grid, and the reliability of the electricity supply and the transparency of tariffs

- Registering property Procedures, time and cost to transfer a property and the quality of the land administration system.
- 5. Getting credit Movable collateral laws and credit information systems
- Protecting minority investors Minority shareholders' rights in relatedparty transactions and in corporate governance
- Paying taxes Payments, time, total tax and contribution rate for a firm to comply with all tax regulations as well as post-filing processes
- Trading across borders Time and cost to export the product of comparative advantage and import auto parts
- Enforcing contracts Time and cost to resolve a commercial dispute and the quality of judicial processes
- Resolving insolvency Time, cost, outcome and recovery rate for a commercial insolvency and the strength of the legal framework for insolvency

(Labor market regulation- Flexibility in employment regulation and aspects of job quality is included in the analysis but is not included in the Score).

India's rank has improved from 100 in 2017 to 77 in 2018 among 190 countries in the world with a score of 67.23 on a 0-100 scale.

Business reforms in Karnataka

The Karnataka Industries (Facilitation) Act 2002 provides for the promotion of industrial development and facilitation of new investments to simplify the regulatory frame work by reducing procedural requirements and rationalising documents and to provide for an investor friendly environment in the State of Karnataka. It provides for Constitution of State High Level Clearance Committee, State Level Single Window Clearance Committee and District Level Single Window Clearance Committee for consideration of application from entrepreneurs intending to establish industries in the State. Appointment of Karnataka Udyoga Mitra as a Nodal Agency at State Level and the District Industries Centre at Nodal Agency at the District level to undertake investment promotional activities and to render necessary guidance and assistance to entrepreneurs to setup industrial undertaking in the State.

Karnataka Udyog Mitra (KUM) working under the aegis of Dept. of Industries and Commerce is the "single point of contact" for all investors who are looking forward for setting up businesses and also the nodal agency for implementing initiatives under Ease of Doing Business in the State.

KUM works on the model of a Single Window Clearance mechanism. Karnataka Udyog Mitra will liaise between the organization and the various government departments for assistance in land identification, land allocation, power, water, environmental clearance, etc. to ensure smooth and timely implementation of your projects. The investor has no longer need to go from department to department or wait in line or hop multiple websites for information and services. Projects with investments between INR 15 to 500 crores, will be cleared by the State Level Single Window Clearance Committee (SLSWCC), chaired by the Minister for Large and Medium Scale Industries, Government of Karnataka. If the investment is above INR 500 crores it will be cleared by the State High Level Clearance Committee (SHLCC), chaired by the Chief Minister, Govt. of Karnataka.

However, to boost the investment process and attract the new investors in competitive markets, it is essential to have a robust automated system wherein businesses can be facilitated with end-to end service delivery by creating smooth transition from receiving an investment proposal to the implementation and operationalization of the project and its after care through adequate monitoring.

In this context, evaluation of the industry related service modules of major Line Departments is taken up here as requested by Karnataka Udyog Mitra. The objective is to understand the effectiveness of these modules in delivering the services to the investors and identify gaps if any to make necessary corrections and reengineering of these services to make them more investor friendly to boost the investment process in the State.

4. Scope of the Study

The evaluation study is mainly a process evaluation. The 55 major services rendered by different Departments are listed for evaluation. The scope of the study is to examine the performance in delivery of these services as per the timeline, the process of delivery, online- offline, the clarity about the services, the problems faced, any additional issues etc. and the suggestions for any changes required. The data is to be collected and analysed for all applications from 1/4/2018 to 30/6/2019. The service delivery is to be assessed against the scheduled No. of days mandatory for the delivery of the service. It should cover the evaluation of both the aspects -service delivery and functional aspects of the service modules. It will also collect the opinion of the investors about the EoDB facilitated by these service modules. The study, based on the findings, will offer the suggestions for further improvement in the procedures.

Objectives of Evaluation

The basic objectives of Evaluation are:

- To study the role of Karnataka Udyog Mitra (KUM) as single window portal and the services offered by it to facilitate the investment process in the State.
- To examine the status of EoDB in Karnataka State vis a vis other States in India.
- To analyse the service delivery mechanism, the approval process and the time taken by different departments for the approvals during the study period.
- 4. To examine the procedures, documents to be submitted to obtain a service their requirement vis a vis redundancy, & to analyse the time pattern in delivery of services across the Departments/ categories of services, the investor groups, the Start-ups etc.
- To analyse ease of accessibility, submission of application, access to information on the portal, ease of handling the process, and e- payments across the group of investors and regions.

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- 6. To assess the effectiveness of service delivery, identification of gaps, pendency, online & offline procedures and issues across the Departments and suggest effective mechanism to overcome the gaps and improve the efficiency of service delivery.
- To examine the impact of service delivery on growth of investment, enterprises and entrepreneurs in the State 9Pre & Post Period analysis).
- To study the models in other States & countries and their application in the State to improve the ranking of the State in EoDB.

5. Evaluation Issues/ Questions

I. Assessment of service Delivery Procedure

- Data collection from line Departments for all applications for each industry service module, and its approvals as per specified period.
 - a. Applications received, approved and rejected- reasons for the same.
 - b. Delivery of service, payment mode online/ offline
 - c. Document submission- online/ offline/ partial.
 - d. Clarification- online/ offline/ NA
 - e. Status Tracking- online/ offline/ both
 - f. Approval certificate- online/ offline/ both
 - g. Approval Certificate signature (digital/ e-sign/scanned upload etc.)
- Analysis of the following information for each Department & industry service wise
 - i. Name of the service,
 - ii. Timeline as per Sakala
 - iii. Name of the applicant, Application No. mobile no. e-mail id &address
 - iv. Office, division / circle/ Taluka applied to
 - v. Kalyan Karnataka region vis-a-vis Non-KK region
 - vi. Date of application
 - vii. Date of approval

- viii. Clarifications raised by Dept.- No. of days from the date of application,
- ix. No. of times clarifications raised.

Website specific details

- 3. Creation of Login IDs and making online applications for each service to check modules, functionality of website, ease of accessibility, form submission, workflow, ease of applying, document upload, tracking applications, downloading final certificate and other procedural requirements.
- 4. Analysis of ease of accessibility, submission of application, access to information on the portal, ease of handling the process, workflow, ease of applying, document upload, tracking applications, downloading final certificate and online payments across the group of investors and regions.
- Analyse interdependence in service delivery across the services in different Departments. Identify correlation between two or more Departments.
- Examine the extent of overlapping/ non overlapping in procedures /Laws/ rules/ among concerned Departments.
- Validation and confirmation of the receipt for delivering the Sakala services to the concerned applicants/ entrepreneurs.
- The number of days spent in getting approvals and compliances. Additional costs incurred for getting any approvals or completing processes beyond officially prescribed fees.

II. Functional aspects of service modules

- i. Workflow process- end to end application approval.
- Document Storage capacity, document sharing and internal workflow process.
- iii. Help to understand a particular process.
- iv. Compliance to standard browsers (Google, Internet explorer, Mozilla Firefox, safari etc.)
- v. Bilingual support provision for the modules

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- vi. Compliance with W3C Standards
- vii. Support to digital signature.
- viii. Security aspects w.r.t. authorisation.

III. Output & Outcomes (Service delivery and impact on investors).

- a) Analyse the percentage increase in growth of industries, business/ services in pre and post Sakala period in the State and percentage change/ decrease in time taken for final approvals.
- b) Analyse the service delivery trends across the services and Departments as against the scheduled time period. Identify the services that are provided within the time period and review to what extent the online mode has met the expectations of the investors.
- c) Whether separation of guidelines between Industrial Land approval agencies versus other residential and commercial zoning areas will speed up the land approval process?
- d) Analyse the pendency rate across the services, Departments regions, sectors and investor groups. Start-ups, small investors vis-a vis the big investors, investors within & outside the State & country.
- e) Carry out a regression analysis of services across departments and across services to identify which Departments and services are contributing to the delay period.
- f) The survey of enterprises by NITI Aayog on EoDB (2017) observed that at All India level, the average time taken to get all construction related approvals was around 75 days but in Karnataka it was 140 days, the highest in the country. Examine its validity and reasons for the same.
- g) The report also has noted that the awareness, information and utilisation of single window system is very low across the States. Examine it among the sample investors in Karnataka.
- h) How many business reforms are carried out by the state and what is the gap left. Examine to what extent the service coverage is adequate to ensure increased flow of investments in the State.

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- Analyse the problems faced by MSME entrepreneurs with regard to procedures, access to and handling of investment procedures across the regions.
- j) Examine whether clear process guidelines are existing covering recent urban legal judgements and challenges to industrial approvals (including small firms-restaurants, clinics, shops, educational institutions etc.)
- Review the functioning of the grievance redressal mechanism to address the issues and concerns of the investors and time taken to settle the issues.
- The study has to undertake an opinion survey of investors to get feed back about the actual difficulties faced by them in seeking various approvals required for the investment proposal.
- m) What are the perceptions of the entrepreneurs about the business environment in the State?
- n) What are the models adopted in other States & countries and examine the feasibility of their application in the State to enhance the effectiveness of service delivery in the State and increase the flow of investments?

6. Sampling & Evaluation Methodology

The study is basically an audit/ assessment of processes involved in sanction of different approvals to start an industry/ business. It therefore largely depends on the secondary data collected from the portals/ websites of different departments and the data available in e- governance for these 55 industry related services in about 24 Departments. The study will also apply experimental method to generate the data. Various statistical techniques like correlation, regression to be applied for the analysis of the data.

. For the opinion survey of applicants, a sample of minimum 30 applicants each from four divisions in the State to be picked up randomly based on the available information. The total is 120 applicants. A structured questionnaire with limited number of questions is to be used to collect the data from sample applicants.

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In depth interviews with the officers of the Departments, Karnataka Udyog Mitra, Federation of Chamber of Commerce and industries and experts in the field to seek their views and suggestions.

Qualitative data

FGDs 10		Stakeholders- leading industrial groups,
	level 2 @ State level	members of chamber of Commerce &
		Industries, successful entrepreneurs,
		and other key persons.
IDI's 75	2 from each Dept. involved in	Higher level and other key
	the study & officers at Division	
	level, district level and from	concerned.
	Udyog Mitra.	

7. Deliverables time Schedule:

The Karnataka Udyog Mitra, Sakala Mission and KEA will provide the necessary information pertaining to the study and also co-operate with the consultant organization in completing the assignment task within the stipulated time period.

It is expected to complete the present study in 3 months' timeline, excluding the time taken for approvals at KEA.

Table 5: Timelines and deliverables

a. Inception Report	15 days after signing the agreement		
b. Field Data Collection	1 month after the date of work plan		
	Approval*		
c. Draft report submission	1 month after Field Data Collection		
d. Final report	15 days after approval of the Draft report		
Total duration	3 Months		

8. Qualities expected from the Report

The evaluation report should generally confirm to the United Nations Evaluation Guidelines (UNEG) "Standards for Evaluation in the UN System" and "Ethical Standards of Evaluations".

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The report should present a comprehensive review of the Scheme/ programme in terms of the content, implementation process, adequacy, information and access to beneficiaries and the effectiveness of service delivery.

The qualitative data collected through FGD and discussions with the officials should be used in unbiased manner to support or for further analysis of the reflections from the quantitative data. The analysis should provide adequate space for assessing the variations across the regions and social categories. Case studies to be presented to bring out the realities at the household level.

The report should come out with specific recommendations based on adequate field evidence for any modifications in the programme design, content, implementing procedures, and any other modifications to improve the access and impact of the Scheme/Programme.

9. Structure of the report

The following are the points- only inclusive and not exhaustive- which need to be mandatorily followed in the preparation of evaluation report. The report should be complete and logically organized in a clear but simple language. Besides confirming to the qualities covered in the Terms of Reference, report should be arranged in the following order:

Preliminary Part

- Title and Opening Page
- Index
- List of acronyms and abbreviations
- Executive Summary- A section that describes the program, purpose and scope of evaluation, research design and methodology, key findings, constraints and recommendations.

Chapter-1 Introduction and Study design

- Background- A section that briefly covers the history or genesis of the sector under which the programme/scheme being evaluated covered. It should give recent fact sheets taken from reliable and published sources and review of the progress of the scheme at Taluka/District level.
- · Log Frame theory/ Theory of change
- Objectives and performance of the program This section includes the stated objectives of the program and the physical and financial achievements of the selected program in the period of evaluation. It should cover the description of the target group, aim of the program, the programme guidelines and method of selection of beneficiaries and the physical and financial achievements.

Chapter -II Review of literature and Evaluation Methodology

- Review of past evaluation reports and their findings- Theoretical background.
- Evaluation Methodology This should include research design, hypotheses for testing, evaluation matrix sample design and size, Methodology for data collection and analysis- questionnaire design and pilot test, data analysis.
- · Limitations/constraints in the evaluation study.

Chapter III - Findings and discussion

- Tables and figures are to be used to present results in summary and/or graph format to add clarity to the presentation. In addition to simply presenting the results in a straightforward manner, the author also must provide the readers with his/her interpretation of the results, implications of the findings, conclusions. Each result is discussed in terms of the original hypothesis to which it relates and in terms of its agreement or disagreement with results obtained by other researchers in similar/related studies.
- · A detail analysis of Case Studies, and discussions

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Chapter IV Summary and Conclusions

Chapter V- Recommendations - Recommendations to be evidence based- short term for mid-course corrections &long term for change in program design/ policy change.

Annexures

Sanctioned Terms of Reference of the study.

Survey tools and questionnaires

Place, date and number of persons covered.

Table showing details of major deviations, non-conformities, of the program.

SL No.	Team	Subject Experts Requirements	Experience
1.	Principal	Ph.D in Commerce/ Management/	05 years of experience in field
	Investigator	Economics is preferable or first class	
		post graduate degree in	
		Commerce/Management	
		/Economics	
- 2.	1 st Core	First class graduate/ Post graduate	Should also possess a minimum
	team	engineering degree in Computer	of three (3) years of experience
	member	Science/ Information technology/	in allied sector projects
		Business analysis/ web designing.	
3.	2 nd Core	Postgraduate in Statistics/ MCA	3 years' experience in data
	team	with knowledge of Statistical	analysis
	member	analysis techniques	-

10. Study Team- requirements

11. Cost and Schedule of Budget release

The Output based budget release will be as follows-

- The first instalment of Consultation fee amounting to 30% of the total fee shall be payable as advance to the Consultant after the approval of the inception report, but only on execution of a bank guarantee of a scheduled nationalized bank, valid for a period of at least 12 months from the date of issuance of advance.
- The second instalment of Consultation fee amounting to 50% of the total fee shall be payable to the Consultant after the approval of the Draft report.

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3. The third and final instalment of Consultation fee amounting to 20% of the total fee shall be payable to the Consultant after the receipt of the hard and soft copies of the final report in such format and number as prescribed in the agreement, along with all original documents containing primary and secondary data, processed data outputs, study report and soft copies of all literature used in the final report.

12. Selection of Consultant Agency for Evaluation

The selection of evaluation agency should be finalized as per provisions of KTPP Act and rules without compromising on the quality.

13. Contact persons:

Shri Pradeep kumar, Karnataka Udyog Mitra Bangalore Dr. Chaya Degaonkar (ACEO.) KEA, Ph: 9342331301

The Terms of Reference were approved by the Technical Committee of KEA in its 45th Meeting held on 10th October 2019.

Chief Evaluation Officer Karnataka Evaluation Authority

Prepared by: Dr. Chaya Degaonkar (ACEO, KEA)

EVALUATION OF FUNCTIONING AND EFFECTIVENESS OF INDUSTRY RELATED SERVICES MODULES OF MAJOR GOVERNMENT DEPARTMENTS IN PROMOTING INVESTOR FRIENDLY BUSINESS ENVIRONMENT FOR INDUSTRIES IN KARNATAKA STATE, 2019-20

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