

Part -A (To be fed at Ministry/ Department Level)

Date : / /2020

**A. Background Information**

1.	Ministry:		(Short name)
2.	Department:		
3.	Name of the Central Sector Schemes:	a.	
		b.	
		c.	
4.	Name of Centrally Sponsored Schemes:	a.	
		b.	
		c.	

**B. General**

1.	Does the website of M/D have features to support differently abled as per GIGW/NIC norms	<input type="checkbox"/> Yes
2.	Do all the M/D portals support Multi-lingual interfaces as per GIGW/NIC norms	<input type="checkbox"/> Yes
3.	Does the M/D follow Antivirus update	<input type="checkbox"/> Yes
4.	Does the M/D follow norms of electronic waste disposal	<input type="checkbox"/> Yes
5.	Does the M/D use de-gauging before electronic machine disposal	<input type="checkbox"/> Yes
6.	Are transaction systems put in place are conducive to internal audit	<input type="checkbox"/> Yes

**C. Best Practices – Kindly describe up to 3 best practices of using Information Technology & Data Analytics in driving smart, near real-time and granular decisions in your ministry/department**

<b>Best Practice 1</b>
1a. Describe the best practice in terms of the objectives of the initiative, the technological solution developed and the implementation of the initiative (in about 200 words)
1b. Explain the positive impact generated due to the technological solution implemented (in about 50 words)

<b>Best Practice 2</b>
2a. Describe the best practice in terms of the objectives of the initiative, the technological solution developed and the implementation of the initiative (in about 200 words)
2b. Explain the positive impact generated due to the technological solution implemented (in about 50 words)

<b>Best Practice 3</b>
3a. Describe the best practice in terms of the objectives of the initiative, the technological solution developed and the implementation of the initiative (in about 200 words)
3b. Explain the positive impact generated due to the technological solution implemented (in about 50 words)

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**Part -B ( To be fed at Program/ Scheme level) – As many Part-B to be filled as number of schemes mentioned in Point no. 3&4 of A. Background information of Part – A of self assessment form**

Scheme Name :

Short Name(If any):

#### A . Data Generation: Granularity and Digitization

1.	At what granularity is data generated and at what level the data is digitized for this scheme	Paper	Digital	
	a. At the M/D (National)	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	
	b. State	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A
	c. District	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A
	d. Panchayat	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A
	e. Village	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A
	f. Individual	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A
	g. Project	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> N/A

N/A= not applicable; M/D = Ministry/Department If the attributes are applicable for Digital (as Yes)

#### B. Data Generation: Frequency in the scheme

1.	At what frequency is data generated	Paper	Digital
	a. Realtime (transaction data)	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	b. Daily	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	c. Weekly/ Fortnightly	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	d. Monthly	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	e. Quarterly	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	f. Half-yearly	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
	g. Yearly	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes

#### C. Data Generation: Others

1.	Does scheme use any of the following for data generation	
	a. Mobile surveys - CAPI	<input type="checkbox"/> Yes
	b. Geo coded photos	<input type="checkbox"/> Yes
	c. Geo-fenced information	<input type="checkbox"/> Yes
2.	Use location tracking devices	<input type="checkbox"/> Yes

#### D. Data Quality

1.	Does scheme use protocols to check data quality	<input type="checkbox"/> Yes
	a. Rigorous data profiling and control of incoming data	<input type="checkbox"/> Yes
	b. Data pipeline design to avoid duplicate data	<input type="checkbox"/> Yes
	c. Accurate gathering of data requirements (well-defined data schema)	<input type="checkbox"/> Yes

	d. Enforcement of data integrity	<input type="checkbox"/> Yes
	e. Integration of data lineage traceability into the data pipelines- use of metadata	<input type="checkbox"/> Yes
	f. Dedicated data quality control teams	<input type="checkbox"/> Yes

### E. Use of mobile phones

1.	Does the scheme use mobile phones for monitoring	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	If 'Yes', what are the purposes for which mobile phones are used	
	a. Outreach as a part of social audit or participatory monitoring	<input type="checkbox"/> Yes
	b. Feedback	<input type="checkbox"/> Yes
	c. Collect data remotely	<input type="checkbox"/> Yes
	d. Telephonic survey (manual/IVR)	<input type="checkbox"/> Yes
	e. Geotagged photograph uploading	<input type="checkbox"/> Yes
	f. Geo fenced data generation	<input type="checkbox"/> Yes
	g. Location and GPS data	<input type="checkbox"/> Yes
	h. Multimedia data – voice, video, images as evidence	<input type="checkbox"/> Yes

### F. Data Analysis

1.	Does the scheme do data analysis	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	If 'Yes', what are the methods used	
	a. Exploratory data analysis	<input type="checkbox"/> Yes
	b. Modeling and algorithms	<input type="checkbox"/> Yes
	c. Correlation	<input type="checkbox"/> Yes
	d. Causation	<input type="checkbox"/> Yes
	e. Regression analysis	<input type="checkbox"/> Yes
	f. Predictive	<input type="checkbox"/> Yes
	g. Data mining	<input type="checkbox"/> Yes

### G. Dashboards

1.	Does the scheme have dashboards	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	If 'Yes', what are the purposes for which Dashboards are being used	
	a. Visual presentation of performance measures	<input type="checkbox"/> Yes
	b. Identifying preempt trends	<input type="checkbox"/> Yes
	c. Measure efficiencies/inefficiencies	<input type="checkbox"/> Yes
	d. Generate detailed reports showing new trends	<input type="checkbox"/> Yes
	e. Make more informed decisions based on collected business intelligence	<input type="checkbox"/> Yes
	f. Align strategies and organizational goals	<input type="checkbox"/> Yes

	g. User friendly one stop access to multiple reports	<input type="checkbox"/> Yes
	h. Gain total visibility of all systems instantly	<input type="checkbox"/> Yes
	i. Quick identification of data outliers and correlations	<input type="checkbox"/> Yes

#### H. Data Visualization

1.	Type of Data Visualization used by the scheme	
	a. Bar chart	<input type="checkbox"/> Yes
	b. Histogram	<input type="checkbox"/> Yes
	c. Scatter plot	<input type="checkbox"/> Yes
	d. Heat maps	<input type="checkbox"/> Yes
	e. Treemaps	<input type="checkbox"/> Yes
	f. Gantt chart	<input type="checkbox"/> Yes
	g. Others- Stripe graphics, streamgraph, etc.	<input type="checkbox"/> Yes
2.	Does M/D visualize information on maps	<input type="checkbox"/> Yes

#### I. Dissemination/Communication

1.	Use of IT by scheme for dissemination	
	a. Web site information	<input type="checkbox"/> Yes
	b. Web site dashboard	<input type="checkbox"/> Yes
	c. Mobile App	<input type="checkbox"/> Yes
	d. Social media	<input type="checkbox"/> Yes

#### J. Linkages with other Platforms

1.	Does the MIS of the scheme have linkages with PFMS	<input type="checkbox"/> Yes
2.	Does the MIS of the scheme have linkages with Aadhar	<input type="checkbox"/> Yes
3.	Does the MIS of the scheme have linkages with Mobile numbers	<input type="checkbox"/> Yes
4.	Does the MIS of the scheme have linkages with Bank Account	<input type="checkbox"/> Yes

#### K. Use of Other Data Sources

1.	Does the MIS of the scheme use remote sensing data	<input type="checkbox"/> Yes
2.	Does the MIS of the scheme use night light data	<input type="checkbox"/> Yes
3.	Does the MIS of the scheme use social media data	<input type="checkbox"/> Yes
4.	Does the MIS of the scheme use private sector generated data	<input type="checkbox"/> Yes
5.	Is IT system compliant to Local Govt Directory(LGD)	<input type="checkbox"/> Yes

#### L. Use of Machine Learning, Artificial Intelligence, Block Chain and Internet of Things

1.	Does the scheme apply Machine Learning	<input type="checkbox"/> Yes
2.	Does the scheme apply Artificial Intelligence	<input type="checkbox"/> Yes

3.	Does the scheme apply Blockchain	<input type="checkbox"/> Yes
4.	Does the scheme use Internet of Things (IoT)	<input type="checkbox"/> Yes
5.	Does the scheme use Big Data analytics	<input type="checkbox"/> Yes

#### **M. Number of users/ stakeholders of MIS/Dashboard of the Scheme**

1.	Number of users at Central Level	
2.	Number of users at State Level	
3.	Number of users at District Level	
4.	Number of users at Sub-District/taluka/tehsil/Block Level	
5.	Number of users at GP/Village Level	

#### **N. Application Software**

1.	Is it Open Source	<input type="checkbox"/> Yes
2.	Developed in-House	<input type="checkbox"/> Yes
3.	Developed by out-sourced agency	<input type="checkbox"/> Yes
4.	Does scheme owns the partial/full IPR	<input type="checkbox"/> Yes
5.	Could it be replicated for similar requirement	<input type="checkbox"/> Yes