

RDSS (Revamped Distribution Sector Scheme) Overview and Targets



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Agenda

- Objective of the scheme
- Background / Scheme Overview
- Summary of Proposals as Approved
- Result evaluation matrix (AT&C loss & ACS-ARR gap)
- Project Monitoring and Responsibilities

Objective of the Scheme

Objective

- ✓ Improve the quality, reliability and affordability of power supply to consumers through a financially sustainable and operationally efficient distribution Sector
- ✓ Reduce ACS-ARR gap to zero by 2024-25
- ✓ Reduce the AT&C losses to pan-India levels of 12-15% by 2024-25

Key Parameters

Budget	Eligible Entities	Primary Focus Areas
Total Expected Outlay ₹ 3,03,758 Crore Expected Grant ₹ 97,631 Crore	All State Owned Discoms and State/UT Power Departments (excl. private sector power utilities)	Metering Initiatives Loss Reduction Initiatives Financial Reforms Capacity Building

Scheme overview



- MoP has announced on “*Revamped Distribution Sector Scheme – A Reforms based Results linked Scheme*”
- Scheme has 2 key parts:
 - **Part A** – Financial Support for upgradation of Distribution Infrastructure and Prepaid Smart Metering & System Metering
 - **Part B** - Training & Capacity Building and Other Enabling & Supporting Activities
- All State owned Discoms and State/UT Power Departments eligible for financial assistance.
- Duration of the scheme is 5 years (FY 2021-22 to FY 2025-26).

Funding structure

Particulars	Description	Central Financial Assistance (Grant)
Meterization	<ol style="list-style-type: none"> Consumer Prepaid Smart Metering DT & Feeder Metering 	<p>15%</p> <p><i>(max. Rs. 900/ consumer meter)</i></p> <p>Incentive @ 7.5% <i>(max Rs. 450/ meter)</i> for prepaid smart meters installed in first phase – Dec' 2023</p>
	Other costs (Billing Module, Data management, Data analytics, etc.)	100%
Distribution Infrastructure Works	<ol style="list-style-type: none"> Works relating to Loss reduction System Strengthening & Modernization 	60%
Training & Capacity Building	For Training & Capacity Building and Other Enabling & Supporting Activities	<p>100%</p> <p><i>(Only for centralized trainings programs to be organized by Nodal Agency for State officials)</i></p>
Project Management	<ol style="list-style-type: none"> 2.5% of the Grant for meterization 1.5% of project cost of Infrastructure works 	60%

Release of Grant



Meterization

- [Pre-Qualification Conditions](#) and Result Evaluation Matrix not applicable for release of grant
- Release of Grant linked to installation and commissioning of meters
- Grant release against installation of every 5% of the total planned meters

Infrastructure Works – Release of Grant subject to Qualification in Pre-Qualification Criteria (PQC) & achieving minimum 60 marks in Result Evaluation Matrix (REM)

Particulars	2021-22	2022-23	2023-24	2024-25
Loss Reduction Works	10% (DPR sanction – 5% Award of works – 5%)	20%	30%	40%
SSTD & Modernization	-	30% (DPR sanction – 10% Award of works – 20%)	30%	40%

Summary of proposals (Consumer & System Metering)

Discom	Consumer Metering			DT Metering		Feeder Metering		Total metering (Nos.)	Total Cost (Rs. Cr.)	
	Nos. (in lakhs)		Total (Nos.)	Cost (Rs. Cr.)	Nos. of DT Metering	Cost (Rs. Cr.)	Feeder Metering (No.)			Cost (Rs. Cr.)
	(Ph1) Upto Dec 23	(Ph 2) Upto Mar 25								
East Discom	26.50	24.94	51.4	3087/ 5,466	1.3	301/ 271	-	-	52.7	3387/ 5737

Summary of proposals (Infrastructure Works for Loss Reduction)

Particulars	Unit	East	
		Quantity	Amount
LT AB Cabling	Ckm	40511	769
Armored service cable for Smart Meter	Ckm	36802	129
IT/OT enablement works for loss reduction (AI/ML, ERP upgradation, CMDMS etc.)	LS	LS	244
Separation of Existing Mixed Feeders	Number	905	1220
HT line Bifurcation/Interconnection for Overloaded Feeders	Ckm	4830	454
Capacitor bank installation	Number	553	70
HT Line Conductor Conversion/Augmentation	Ckm	3016	53
New Substation	Number	91	532
Total (Loss Reduction) (A)			3471
Additional DTR	Number	-	-
Augmentation of PTR at Sub-stations	Number	-	-
Additional PTR at Sub-station (3.15/5 MVA)	Number	-	-
LT/HT Underground cabling	Ckm	-	-
Additional Works proposed (B)			-
Total (Loss Reduction)			3471

Summary of proposals (Infrastructure Works for System Strengthening & Modernization)

Particulars	Unit	East	
		Quantity	Amount
New Sub-station with associated Infrastructure	Number		
LT/HT Underground cabling	Ckm	250	121
Augmentation of PTR at Sub-stations	Number	156	79
Additional PTR at Sub-station (3.15/5 MVA)	Number	176	188
Related works to make existing SCADA fully functional	Number	55	36
Additional DTR	Number	6925	607
DT Capacity Enhancement and structure renovation	Number	23857	425
Upgradation of existing NABL/Testing Lab	Number	6	17
33 kV Ring Main System on Mono Pole	Ckm	320	429
Sub-station modernization Related Works (VCB, Earthing, relays, Battery charges, isolators, RTDAS etc.)	Number	LS	212
Control and monitoring system for Capacitor Bank & Agriculture feeder	Number	950	90
Disaster Management Activity	LS	LS	10
E-Vehicle Charging station and infra work	Number	160	15
Total (SS&M)			2229

Result Evaluation Matrix (Financial stability)

S. No	Result Parameter	Units	Maximum Marks	Baseline values		Target			
				2020	2021	2022	2023	2024	2025
A	Financial Stability (60% weightage)								
1.A	ACS-ARR Gap (on subsidy received basis, excluding regulatory income & UDAY grants)	Rs./ kWh	30	1.27	1.77	1.62	1.04	0.80	0.25
1.B	ACS-ARR Gap (revenue on cash basis and subsidy received basis, excluding regulatory income & UDAY grants)	Rs./ kWh	0	1.68	2.26	1.86	1.23	0.84	0.36
2	AT&C loss	%	25	33.89	44.11%	36.55%	32.06%	24.27%	19.49%
3	Outstanding/ Overdue Subsidy Payment by State Government	Rs. Crore	10	1832	3,725	3,725	3,166	2,421	1,304
4	Outstanding/ Overdue Government Dues	Rs. Crore	15	150	195	195	144	88	0
5	Progress in putting Govt. Offices on prepaid meters	%	10	0%	0%	0%	15%	100%	100%
6	No. of creditor days (only GENCO & Transco)	Days Payable	5	214	217	215	171	114	42
7	No. of debtor days	Days Receivable	5	238	318	275	203	136	76
8	Digital Payments: as a % of total bills generated	%	5	19%	25%	30%	35%	40%	45%
			100						

Result Evaluation Matrix (Outcome Infra Works)

S.No	Result Parameter	Units	Maximum Marks	Baseline values		Target			
				2020	2021	2022	2023	2024	2025
B	Outcomes of Infra works (20% weightage)								
1	Hours of supply (Rural)	Avg. Hours/Day	20	23:10	23:10	23:14	23:19	23:31	23:40
2	Hours of supply (Urban)	Avg. Hours/Day	20	23:24	23:31	23:38	23:43	23:53	23:55
3	Publishing of Energy Accounts as per the BEE guidelines	Yes / No	10	No	No	No	Yes	Yes	Yes
4	SAIFI (Rural)	Nos/ Year	10	36.8	36.72	35.12	33.78	31.11	27.68
5	SAIFI (Urban)	Nos/ Year	10	8.06	8.01	7.75	7.12	6.23	5.75
6	Data availability in the National Feeder Monitoring System / NPP	%	20	3%	4%	6%	100%	100%	100%
7	DT Failure Rate	%	10	11.75%	11.67%	10.55%	9.43%	8.64%	7.21%
			100						

Result Evaluation Matrix (Infra Works)

S.No	Result Parameter	Units	Maximum Marks	Baseline values		Target			
				2020	2021	2022	2023	2024	2025
C	Infrastructure Works (10% weightage)								
1	Metering								
A	Smart Consumer Metering (Non-Agriculture)	Nos.	10	0	0	7,231	960,057	16,74,523	5,144,451
B	Smart DT Metering (Non-Agriculture)	Nos.	20	0	0	0	7,114	40,721	130,721
2	Feeder Separation - % of total Agriculture feeders separated (Feeders with Agricultural load of >= 30% of total load of feeder) (Target – 905 No.)	%	25	0	0	0	31%	64%	100%
3	Re-Conductoring (33 & 11 KV line conductor) (Target- 2416 ckm)	%	25	0	0	0	20%	60%	100%
4	Replacement of existing LT overhead bare conductor lines with AB/UG cable (LT AB Cable in Ckm.) (Target-17139)	Ckm	20	0	0	0	5,656	10,969	17,139
			100						

Result Evaluation Matrix (Reforms)

S.No	Result Parameter	Units	Maximum Marks	Baseline values		Target			
				2020	2021	2022	2023	2024	2025
D	Policy and Structural Reforms (10% weightage)								
1	Training of Discom Officials	Mandays	20	39,600	42,600	46,856	51,546	60,918	67,010
2	Subsidy Delivery Mechanism/ DBT (For AG Consumers only)	No. of Circle	20	0	0	3	7	14	21
3	Release of connection (% connections released within timelines stipulated by the regulator)	%	15	85%	90%	92%	95%	100%	100%
4	Online Applications: For new connections - ratio of connections processed through online mode vs total applications processed by the Discom	%	20	25	30	30	50	70	80
5	Consumer Rights and Grievance Redressal	Tier	20	2	2	2	3	3	3
8	Digital Payments: as a % of total bills generated	%	5	19%	25%	30%	35%	40%	45%
			100						

- ACS (Average cost of Supply):- It is the total expense for supply of power divided by Gross input Energy at the Discom periphery.
- ARR (Average Revenue Realized):- It is the total revenue generated by selling of power divided by Gross input energy at the Discom periphery.
- ACS-ARR Gap:- If ACS-ARR Gap is more than zero it indicates losses to the Discom, Currently we have ACS-ARR Gap is 1.87 Rs. For FY 20-21 and Target is Zero For FY 24-25.

ACS-ARR Gap



EAST	Unit	Past Trend				CAGR	Future Projections			
		FY 2018	FY 2019	FY 2020	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025
Gross Input Energy	MU	20,413.88	22,263.05	21,878.97	24,855.95	06.78%	26,229.37	27,700.60	29,103.55	30,942.90
Expenses										
<i>Cost of Power Purchase</i>	Rs. Crore	8,374.22	9,137.24	9,736.22	11,595.00		12,541.58	13,576.17	14,762.99	16,245.38
<i>Administrative and General Expenses</i>	Rs. Crore	481.94	305.16	116.28	100.53		107.37	114.67	122.46	130.79
<i>Repairs & Maintenance Expenses</i>	Rs. Crore	168.84	199.79	150.16	104.00		233.71	250.95	295.39	390.57
<i>Employee Expenses</i>	Rs. Crore	994.47	980.73	1,134.57	1,091.74		1,205.00	1,323.00	1,456.00	1,574.00
<i>Financing Cost (Interest)</i>	Rs. Crore	976.99	901.91	956.38	853.43		862.82	841.03	864.45	920.84
<i>Interest on Working Capital</i>	Rs. Crore	115.79	185.53	274.95	268.68		110.42	147.89	154.15	173.30
<i>RoE</i>	Rs. Crore				318.68		570.00	291.00	312.00	330.00
<i>Depreciation</i>	Rs. Crore	335.29	362.20	464.37	560.60		613.12	653.73	755.24	862.08
<i>Other Costs</i>	Rs. Crore	17.47	804.29	189.51	233.00		127.00	135.64	144.86	154.71
Total Discom Expenses (Sum total of heads below)	Rs. Crore	11,465.01	12,876.85	13,022.44	15,125.66		16,371.01	17,334.09	18,867.54	20,781.68
Average Cost of Supply (ACS)	Rs./ kWh	5.62	5.78	5.95	6.09		6.24	6.26	6.48	6.72
Revenue										
<i>Revenue from Operations</i>	Rs. Crore	5,951.68	5,950.16	5,908.19	6,189.00		5,908.32	7,349.11	8,995.10	11,434.30
<i>Tariff Subsidies (Received)</i>	Rs. Crore	2,531.04	2,545.39	3,410.99	3,667.00		5,768.21	6,012.91	5,996.74	6,156.93
<i>Revenue Grants under UDAY</i>	Rs. Crore	216.94	286.27	289.67	392.84		-	-	-	-
<i>Other Revenue Grants</i>	Rs. Crore			-	-		-	1,167.95	1,109.15	1,701.64
<i>Other Income</i>	Rs. Crore	584.48	553.89	660.47	632.00	3%	648.68	665.81	683.38	701.42
<i>Subsidy under Liquidation Plan</i>	Rs. Crore							558.99	745.32	1,117.98
<i>Deferred income (Depreciation on Grant)</i>	Rs. Crore						-	18.36	72.43	144.76
<i>Regulatory Income</i>	Rs. Crore	-	-	-	-		-	-	-	-
Total Discom Revenue (Sum total of heads below)	Rs. Crore	9,284.14	9,335.71	10,269.32	10,880.84		12,325.21	15,773.13	17,602.12	21,257.03
Average Revenue Realized (ARR)										
<i>On subsidy received basis excluding regulatory income and UDAY Grants</i>	Rs./ kWh	4.44	4.06	4.56	4.22		4.70	5.27	5.67	6.32
ACS- ARR Gap	Rs./ kWh	1.17	1.72	1.39	1.87		1.54	0.99	0.82	0.40

Circle wise AT&C Loss Trajectory



Sr. No.	Circle Name	AT&C Loss (%)				
		FY 21	FY 22	FY 23	FY 24	FY 25
1	JBP City	22.57%	14.70%	11.98%	7.84%	6.45%
2	JBP O&M	47.65%	40.57%	36.37%	29.07%	24.59%
3	Chhindwara	34.50%	25.64%	20.38%	11.24%	9.29%
4	Seoni	42.04%	34.20%	29.54%	21.46%	16.51%
5	Balaghat	35.79%	27.10%	21.95%	16.11%	9.23%
6	Mandla	35.67%	26.97%	21.80%	12.83%	9.34%
7	Dindori	45.27%	37.87%	33.48%	25.85%	21.17%
8	Narsinghpur	60.19%	54.81%	51.61%	46.06%	42.66%
9	Katni	44.19%	36.64%	32.32%	29.13%	23.33%
10	Sagar	38.19%	29.83%	24.86%	16.25%	10.96%
11	Damoh	41.12%	33.16%	28.43%	20.22%	15.19%
12	Chhatarpur	56.55%	50.67%	47.18%	41.12%	37.41%
13	Panna	61.39%	56.16%	53.06%	47.68%	35.32%
14	Tikamgarh	50.58%	43.90%	39.93%	33.04%	26.99%
15	Rewa	59.00%	53.45%	50.16%	44.45%	33.96%
16	Satna	43.32%	35.65%	31.10%	26.83%	20.83%
17	Sidhi	54.03%	47.81%	44.12%	37.71%	33.78%
18	Singrouli	28.05%	18.31%	13.54%	9.48%	8.00%
19	Shahdol	34.65%	25.81%	20.56%	11.45%	8.69%
20	Umariya	39.72%	31.56%	26.72%	18.32%	13.16%
21	Anooppur	28.47%	18.80%	13.05%	7.38%	6.94%

Project Monitoring and Responsibilities



- PMA will be appointed for Monitoring of RDSS Project. One field engineer for each circle and one field supervisor for each division will be appointed.
- JE/AE have overall responsibility for quality monitoring and 100% joint measurement with PMA and Contractor through E-MB mobile app developed by Discom.
- Manuals for E-MB measurement, Survey, Vendor registration, Quality plan, Invoice management solution and Roles and Responsibilities has been prepared and project monitoring will be done as per these manuals.
- EE will be Nodal officer for all packages. EE (STC) for S/S and 33kv works and EE (O&M) for others. SE will be project manager for all packages.

Thanks