



GOVERNMENT OF INDIA  
MINISTRY OF POWER



# Integrated Power Development Scheme & Urban Distribution Issues Review, Planning & Monitoring meeting

**12-Feb-2018**



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# IPDS snapshot



All progress till 08.02.2018

**Rs 28,405 Cr sanctioned** [Rs. 17,623 Cr GOI Grant] , **addl Rs. 1804 Cr approved**

**Rs. 4,877 Cr Grant released**

- **Rs 26,832 Cr** sanctioned for System Strengthening (ST&D) in 545 circles (3616 towns)

ST&D projects	Amt Rs Cr	%	Remarks
NIT floated	25,615	95%	<b>Pending</b> in J&K [5/12 circles]
Awarded	24,284	91%	<b>Pending</b> in A&N, Delhi, Goa, J&K, Puducherry, Sikkim

- **Rs 985 Cr** for IT enablement of Discoms , **Rs 588 Cr** for ERP
- **States requested to**
  - Expedite award of IT Phase –II, ERP and physical progress of ST & D projects
  - Ensure Review of projects by **Head of Discoms/ State’s DRC**
  - Aggregate quantities of **Smart meters/ Pre-paid meters**



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# IPDS - Progress snapshot



All progress till 08.02.2018

Milestone Name		Unit	Sanction	Award	Survey Complete	WIP	Completion	% Physical progress achieved
Substation	New Substation	No.	1,097	982	852	445	<b>155</b>	33%
	Capacity enhancement & Addl. Xrs	No.	1,353	1,399	1,243	441	<b>337</b>	34%
Over-head Lines	HT (33 & 11KV)	Km	35,039	35,709	23,193	7,054	<b>3,440</b>	20%
	LT (440 V)	Km	20,275	20,210	13,058	3,554	<b>2,036</b>	19%
Cables	Aerial Bunch / UG	Km	72,332	72,654	57,238	16,237	<b>11,258</b>	25%
Distribution Transformers		MVA	7,271	8,318	7,093	2,490	<b>2,028</b>	33%
Meters	Smart/ Prepaid	No.	3,12,400	95,267	76,695	2,211	<b>1,181</b>	10%
	Consumer-System	No.	87,30,967	80,92,299	45,90,236	13,49,010	<b>10,86,000</b>	19%
Solar Panels		KWp	38,319	41,824	29,524	9,625	<b>8,773</b>	27%

WIP – Civil, Materials at site, Erection

## Overall Physical progress – **21%**



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# State-wise progress



All progress till 08.02.2018

1	<a href="#">A &amp; N Islands</a>	17	<a href="#">Maharashtra</a>
2	<a href="#">Andhra Pradesh</a>	18	<a href="#">Manipur</a>
3	<a href="#">Arunl Pradesh</a>	19	<a href="#">Meghalaya</a>
4	<a href="#">Assam</a>	20	<a href="#">Mizoram</a>
5	<a href="#">Bihar</a>	21	<a href="#">Nagaland</a>
6	<a href="#">Chhattisgarh</a>	22	<a href="#">Odisha</a>
7	<a href="#">Delhi</a>	23	<a href="#">Puducherry</a>
8	<a href="#">Goa</a>	24	<a href="#">Punjab</a>
9	<a href="#">Gujarat</a>	25	<a href="#">Rajasthan</a>
10	<a href="#">Haryana</a>	26	<a href="#">Sikkim</a>
11	<a href="#">HP</a>	27	<a href="#">Tamil Nadu</a>
12	<a href="#">J &amp; K</a>	28	<a href="#">Telangana</a>
13	<a href="#">Jharkhand</a>	29	<a href="#">Tripura</a>
14	<a href="#">Karnataka</a>	30	<a href="#">Uttar Pradesh</a>
15	<a href="#">Kerala</a>	31	<a href="#">Uttarakhand</a>
16	<a href="#">MP</a>	32	<a href="#">West Bengal</a>



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# Other projects under IPDS



## • IT Phase - II

DPR Status	States	Towns	Amount Rs Cr	States
Sanctioned	17	1,293	750	AP, CG, Guj, Ker, Telg, UK, Assam, Har, HP, Kar, MH, MP, Pb, Od, WB, Jhkd, J&K
Approved in XI MCM	7	639	131	Bihar, UP, Mizo, Manipur, Arl P, Nagaland, Raj [2 Discoms]
Additionality approved in XI MCM			~104	Mainly for DC/DR in Guj, AP, Assam
<b>TOTAL</b>	<b>24</b>	<b>1,932</b>	<b>985</b>	

NIT Status	Progress / Achievement
RfP floated	10 States - AP, Telangana, CG, Kerala, UK, HP, Har, Mah, Pb, WB
RfP under preparation	5 States - MP, Assam, Kar, Odisha, Guj
To initiate action	2 States – J & K, Jharkhand
Award of Work	2 States - UK , Pb (partial)



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# Timelines: IT Phase-II



Activity	Timeline
NIT, Bid evaluation and Award by Utility	3 months from date of sanction
<ul style="list-style-type: none"><li>• AP, Tel, Guj, Ker, CG: <b>&gt; 10 months elapsed since sanction</b></li><li>• Kar, MP, Odisha, Har, HP, MH, Assam, WB, J&amp;K: <b>&gt; 6 months elapsed since sanction</b></li></ul>	
Project Implementation of priority items related to availability of energy flow information	9 months from date of award
Implementation of other items, project completion and verification by Third party	24 months from date of award



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# Other projects under IPDS



- **ERP**

## Work envisaged under the scope:

- Full use ERP licenses (Materials: Purchase & Stores, Finance & Accounts, HR functions are main functionalities) apart from ESS and Payroll licenses
- Additional Servers & Storage to host ERP applications after utilizing existing IT infrastructure (under RAPDRP or own)
- IT infrastructure (Router, Sw, PC, Printer) in Stores (if not covered in R-APDRP)
- Exclusions: Revenue expenditure, such as FMS, AMC, ATS, Network BW

## Implementation methodology:

- Through e-tendering mode
- Turnkey/partial turnkey basis as per requirement of Utility
- Utilities may specify ERP requirement/specifications based on their need in RFP
- Pre-Qualifying requirements and Payment terms were finalized by a Committee based on inputs received from Utilities and informed to Utilities on 16.02.2017

## Timelines:

- |   |  |
|---|--|
| • Award : <b>6 months from Sanction</b> | • Implementation: 24 months from award |
|---|--|



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# Other projects under IPDS



- ERP**

States sanctioned	Remarks
<b>Green field projects</b>	
Bihar, Kerala, UK, Raj, Punjab, Odisha, Tripura, UP, Kar (BESCOM)	To expedite award of work and ensure integration with IPDS
<b>Existing ERP upgradation</b>	
AP, Telangana, CG, Gujarat, HP, Kar (CESC), Mah	To expedite award of work and ensure integration with existing system and IPDS
<b>In principle sanction</b>	
Jhkd, MP, NER	DPR to be submitted

- Smart metering Solutions** - Projects for Smart metering Solutions for 11 States worth **Rs. 750 Cr** considered by XI Monitoring Committee





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# R-APDRP (subsumed in IPDS) at a Glance

All progress till 08.02.2018

## IT projects (Part-A)

- Rs 5,375 Cr sanctioned for 1405 Towns in 30 States
- Gol loan - Rs 3,512 Cr disbursed till date
- 1,378 towns Go-Live, data from 28,000/ ~31,000 feeders on NPP

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## SCADA projects (Part-A)

- Rs 1,251 Cr sanctioned for 59 Towns in 18 States
- Gol loan - Rs 525 Cr disbursed till date
- 52 Control Centers commissioned, functional in 22 Towns

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## System Strengthening (Part-B)

- Rs 30,897 Cr (Gol loan 10,497 Cr) sanctioned for 1,227 Towns in 26 States
- Gol loan - Rs.6,720 Cr disbursed till date
- 1023 towns completed

Cumulative Sanc. Rs.37,523 Cr., Gol loan Rs 17,122 Cr, Disb. Rs.10,757 Cr.



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# R-APDRP Issues



States	Scheme	Gol Sanc.	Towns	Remarks
J&K	IT	152	30	UAT to be completed
	SCADA	53	2	SCADA standstill – no progress
	System Strengthening	1499	30	9 towns yet to be awarded, poor progress in 21
Jharkhand	IT	161	30	Verification of IT to be completed
	SCADA	70	3	Poor progress
	System Strengthening	295	30	30 towns to be completed
Mizoram	IT	35	9	2 towns yet to be IT enabled
	System Strengthening	216	9	All 9 towns yet to be completed
Nagaland	IT	25	9	1 towns yet to be IT enabled
Pudu	IT	28	4	4 towns yet to be IT enabled, project standstill – linked to TN
	SCADA	14	1	Poor progress SCADA
	System Strengthening	21	4	All 4 towns yet to be completed
Rajasthan	IT	316	87	Project completion pending, 5 time extensions accorded
	SCADA	151	5	3 towns to be completed
	System Strengthening	412	82	5 towns yet to be completed
TN	IT	417	110	8 big towns yet to be IT enabled, project standstill
	SCADA	182	7	Completed, verification to be completed
	System Strengthening	710	88	9 towns yet to be completed



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# Urban Household Electrification status



Sl. No.	State	No. of Unelectrified Urban Households as per PFA document	Current Status of Unelectrified Urban Households
1	Uttar Pradesh	15,06,190	15,06,190
2	Odisha	3,10,071	3,10,071
3	Bihar	3,06,177	3,06,177
4	Jharkhand	1,99,381	1,99,381
5	Assam	1,74,404	1,74,404
6	Manipur	46,386	46,386
7	Nagaland	24,566	24,566
8	Mizoram	18,501	18,501
9	Sikkim	2,845	2,845
11	D & N Haveli	587	587
12	Lakshadweep	38	38
1	Rajasthan	5,00,000	0
2	Karnataka	2,86,678	0
3	Madhya Pradesh	1,44,222	60,576
4	Kerala	1,25,444	0
5	Maharashtra	63,603	0
6	Chhattisgarh	62,377	23,152
7	Telangana	44,532	0
8	Meghalaya	20,668	0
9	Tripura	9,089	0
10	Puducherry	3,450	0
<b>TOTAL</b>		<b>38,49,209</b>	<b>26,72,874</b>

Updated data submitted by States in response to CMD, PFC letter



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# Strategy for reduction in AT&C loss



- National level AT&C loss for FY 15-16 is 24% with Billing Efficiency 79.67% and Collection Efficiency 95.4%. (PFC report)
- In order to achieve AT&C loss below 10%, Billing & Collection Efficiency are to be raised above 92% and 98%, respectively
- **Administrative Actions-**
  - Metering of unmetered consumers and replacement of faulty meters, CTs/PTs
  - More payment channels to improve customer convenience
  - Impose strict vigilance in theft prone area
  - Encourage e-payments through BHIM App
  - Introduce more bill payment options for consumers with SMS reminders
- **Technical Actions-**
  - Phase wise load balancing
  - Diverting load from overloaded DTR having more than 80-90% loading
  - Capacitor placement
  - Upgradation of Substations
  - LT Aerial Bunched cable in theft prone area



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# Current AT&C loss in R-APDRP Towns



S.No.	State Name	Towns	0 and <=10	>10 & <=15	>15 & <=20	>20 & <=30	>30
1	Andhra Pradesh	75	75	0	0	0	0
2	Assam	66	9	6	7	24	20
3	Bihar	67	0	0	2	8	57
4	Chhattisgarh	20	2	4	2	8	4
5	Goa	4	2	1	0	1	0
6	Gujarat	64	25	17	9	11	2
7	Haryana	36	1	5	11	12	7
8	Himachal Pradesh	14	11	3	0	0	0
9	Jammu & Kashmir	12	0	0	0	0	12
10	Jharkhand	15	0	0	0	1	14
11	Karnataka	98	9	28	31	26	4
12	Kerala	43	1	6	12	11	13
13	Madhya Pradesh	83	6	22	17	22	16
14	Maharashtra	128	19	27	20	28	34
15	Meghalaya	9	3	0	0	0	6
16	Punjab	47	9	8	1	13	16
17	Rajasthan	52	12	9	5	11	15
18	Sikkim	2	0	0	0	0	2
19	Tamil Nadu	102	15	77	9	1	0
20	Telangana	38	12	21	3	2	0
21	Tripura	16	16	0	0	0	0
22	Uttar Pradesh	168	1	6	26	51	84
23	Uttarakhand	31	1	0	1	11	18
24	West Bengal	61	0	4	6	21	30
		<b>1251</b>	<b>229</b>	<b>244</b>	<b>162</b>	<b>262</b>	<b>354</b>

Source: System generated Post Go-Live Report(D1), as submitted by Utilities for R-APDRP towns in Jan 2018



# धन्यवाद।



Dial 1912 for  
'Complaints on Electricity'