

PROFORMA - I A

OUTLAY AT A GLANCE (18-19)

SECTOR :

POWER

DEPARTMENT :

(Rs in Lakhs)

Annual Plan 2016-17 Actual Expenditure : 133131.75

Annual Plan 2017-18 Approved Outlay : 123137.20

Annual Plan 2017-18 Revised Outlay : 131161.51

Annual Plan 2018-19 Proposed outlay : 171000.00

Sl.No	Name of the Scheme	Annual Plan 2016-17	Annual Plan 2017-18		Annual Plan 2018-19		
		Actual Expdr.	Approved Outlay	Revised Outlay	Outlay Proposed		
					Revenue	Capital	Total (Col.6 & 7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Erection / Establishment /Upgradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry.	1915.77	1844.66	1638.99	0.00	749.55	749.55
			(39.00)	(19.50)		(351.00)	
2	Conversion of HT over head lines into UG cables, Modernisation and Augmentation of existing 11 KV RMS system and Rationalisation and Improvement of distribution in urban areas.	536.20	589.00	586.14	0.00	295.00	295.00
3	System improvement for reduction of transmission and distribution losses.	686.80	763.32	1023.14	0.00	1216.85	1216.85
						(333.00)	
4	Extension and Development of power supply to all categories of consumers and Street Lights.	1166.95	1334.28	1357.54	0.00	317.50	317.50
			(11.00)	(24.00)		(216.00)	
5	Rural electrification	47.69	38.00	45.56	0.00	68.00	68.00
6	Providing meters for all consumers under 100% metering programme.	183.18	94.15	148.73	0.00	145.45	145.45
7	Suspense	1512.29	1900.00	1900.00	0.00	1900.00	1900.00

							(Rs in Lakhs)	
Sl.No	Name of the Scheme	Annual Plan 2016-17	Annual Plan 2017-18		Annual Plan 2018-19			
		Actual Expdr.	Approved Outlay	Revised Outlay	Outlay Proposed			
					Revenue	Capital	Total (Col.6 & 7)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
8	Erection / Establishment /Upgradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry. (NL-State share)	0.00	0.00	0.00	0.00	0.00	0.00	
9	Modernisation of billing methods and development and 'E' Governance initiatives and improvement of communication methods of the Electricity Department Puducherry. (NL-State share)	0.00	0.00	0.00	0.00	0.00	0.00	
10	Building up of infra structure facilities in the Electricity Department (NL-State share)	0.00	1.00	1.00	0.00	1.00	1.00	
11	Negotiated Loan Component							
i)	Erection / Establishment /Upgradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry. (NL)	2550.00	0.00	0.00	0.00	0.00	0.00	
ii)	Modernisation of billing methods and development and 'E' Governance initiatives and improvement of communication methods of the Electricity Department Puducherry. (NL)	1650.00	0.00	0.00	0.00	0.00	0.00	
iii)	Building up of infra structure facilities in the Electricity Department (NL)	0.00	2500.00	2500.00	0.00	7000.00	7000.00	
iv)	Central share for implementation of Deen Dhayal Upadhyaya Gram Jyothi Yojana scheme in the UT of Puducherry	0.00	0.00	120.31	0.00	0.00	0.00	

12	Interest on Deposits	349.98	350.00	350.00	700.00	0.00	700.00
13	Direction and Administration	1322.93	1647.67	1325.81	1647.59	0.00	1647.59
14	Executive Establishment	7767.93	9914.15	8720.12	14158.80	0.00	14158.80
15	Office of the Consumer Grievance Redressal Forum	63.27	94.81	67.72	94.81	0.00	94.81
16	Payment of current consumption charges, Water consumption charges, Telephone charges etc	0.00	0.00	0.00	89.72	0.00	89.72
17	Purchase of Power	112657.00	101219.25	110681.55	142000.00	0.00	142000.00
18	Establishment of computer based system monitoring centre at Pondicherry	247.69	328.78	220.71	229.00	0.00	229.00
19	Research and development setting up of standards laboratory.	112.38	133.13	127.98	10.00	0.00	10.00
			(50.00)	(56.50)			
20	Formation of electrical inspectorate and licensing board/ Regulatory Commission Liaison Cell, for Pondicherry.	0.05	6.00	0.10	5.00	0.00	5.00
21	Human Resources and Development	18.00	10.00	10.30	10.00	0.00	10.00
22	Modernisation of billing methods and development and 'E' Governance initiatives and improvement of communication methods of the Electricity Department Puducherry.	59.21	47.64	29.77	52.50	0.00	52.50
23	Provision of Electrical Works in Government Department Buildings	221.63	260.12	244.80	260.12	0.00	260.12
24	Experimental Non-Conventional Solar Pond Based Solar Power System	62.80	61.24	61.24	49.31	0.00	49.31
TOTAL		133131.75	123137.20	131161.51	159306.85	11693.35	171000.00
			(100.00)	(100.00)		(300.00)	

Note: Figures in bracket shows Building component.

PROFORMA - I A

OUTLAY AT A GLANCE(18-19)

SECTOR : Energy

ENERGY

DEPARTMENT :

(Rs in Lakhs)

Annual Plan 2016-17 Actual Expenditure	:	62.80
Annual Plan 2017-18 Approved Outlay	:	61.24
Annual Plan 2017-18 Revised Outlay	:	61.24
Annual Plan 2018-19 Proposed outlay	:	49.31

Sl.No	Name of the Scheme	Annual Plan 2016-17	Annual Plan 2017-18		Annual Plan 2018-19		
		Actual Expdr.	Approved Outlay	Revised Outlay	Outlay Proposed		
					Revenue	Capital	Total (Col.6 & 7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Experimental Non-Conventional Solar Pond	62.80	61.24	61.24	49.31	0.00	49.31
TOTAL		62.80	61.24	61.24	49.31	0.00	49.31

Proforma-I (A)**OUTLAY AT A GLANCE 18-19 (SCSP)****SECTOR :**

POWER

DEPARTMENT :

(Rs in Lakhs)

Annual Plan 2016-17 Actual Expenditure

: 399.93

Annual Plan 2017-18 Approved Outlay

: 100.00

Annual Plan 2017-18 Revised Outlay

: 100.00

Annual Plan 2018-19 Proposed outlay**: 100.00**

Sl.No	Name of the Scheme	Annual Plan 2016-17	Annual Plan 2017-18		Annual Plan 2018-19		
		Actual Expr.	Approved Outlay	Revised Outlay	Outlay Proposed		
					Revenue	Capital	Total (Col.6 & 7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Erection / Establishment /Upgradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry.	310.00	0.00	0.00	0.00	0.00	0.00
2	System improvement for reduction of transmission and distribution losses.	42.00	52.50	60.35	0.00	60.35	60.35
3	Extension and Development of power supply to all categories of consumers and Street Lights.	3.58	4.50	4.50	0.00	4.50	4.50
4	Rural electrification	27.69	28.00	28.00	0.00	28.00	28.00
5	Providing meters for all consumers under 100% metering programme.	16.66	15.00	7.15	0.00	7.15	7.15
TOTAL		399.93	100.00	100.00	0.00	100.00	100.00

PROFORMA-II (1)

CAPITAL SCHEMES

Scheme Number : 1 Implementing Department : Electricity
Sector : Power

1. Name of the scheme : Erection / Establishment /Up gradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry.

2. Objective of the scheme :
To establish new Sub Stations, Augmentation of the existing Sub Stations and erection of its allied 230 / 110KV lines to provide reliable power supply in the UT of Puducherry.

3.Actual physical achievements for the Annual Plan 2016-17.

Establishment of new 230 / 110 KV Auto Sub Station at Karaikal.

- Major equipments i.e. Circuit Breakers, Isolators, CVT, 230KV Switch Yard Lattice structure materials, pipe structures. C.T, control & Relay panels etc., have been supplied and arrived at site.
- Site leveling completed. Tower and equipment foundation work started.
- Sanction of the Government has been obtained for availing loan from M/s REC for an amount of Rs.43.35 crores vide G.O. Ms. No. 05, dated: 07-02-2017.
- Sanction of the Government has also been obtained and Loan availed from REC with the approval of the Government vide:-
G.O. Rt. No.94, dt: 20-03-2017 for Rs. 17.50 Crore.
G.O. Rt.No. 98, dt: 30-03-2017 for Rs. 8.00 Crore.
- An amount of Rs.25.50 crore has been deposited with M/s. PGCIL for the establishment of 230/110KV Sub Station at Karaikal.

Erection of 1x16 MVA Power Transformer at 110 KV, Vengata Nagar Sub Station.

- 100% work completed.
- A 110/22 KV, 16 MVA, Power Transformer was energized on 01-02-2017.

Establishment of 110/22 KV Sub Station in the premises of 230/110 KV Auto Sub Station at Thondamanatham.

- **Civil works:**
 - Equipment foundation – 42/76 completed.
 - Tower foundation – 10/12nos. tower foundation completed.

Renovation and Modernization of 110/22 KV Villianur Sub Station.

- Phase I (LV 04 associated bays + 110KV main bus area) R & M works have been completed.
- The balance work could not be completed, as this department is not in a position to shift the existing feeder loads to the neighboring Sub-Station due to loading constraints in the Sub-Station Transformation capacity and link feeder.

Strengthening of 2nd circuit of 110 KV Bahour – Eripakkam feeder.

- Work order issued for stringing of 2nd phase of works from tower location No.21 to 39.
- Work order issued for stringing of 2nd phase of works from tower location No.39 to 63.

4. Actual Physical achievement for the Annual Plan 2017-18

Establishment of new 230 / 110 KV Auto Sub Station at Karaikal.

- 2 nos of 100MVA Power Transformers arrived at site.
- On line insulating oil drier system, Fire Protection system, 110KV Steel structures, Cables & Hardware arrived at site
- 230KV and 110KV Tower and equipment foundations are under progress.
- 70% of ICT-I & ICT-II foundation and associated civil structure works completed.
- An amount of Rs.10.73 crores has been deposited with M/s. Power Grid Corporation of India Limited for the on going work of establishment of 230/110KV Auto SS at Pillaitheeruvasal in Karaikal by availing the 3rd Tranche of loan from M/s. Rural Electrification Corporation.

5. Proposed Physical Targets for the Annual Plan 2018-19.

- Completion of balance Tower & Equipment foundation works.
- Erection of lattice structures and equipments.
- 230KV and 110KV Bus stringing.
- Completion of the balance foundation and associated Civil structure works of ICT-I and ICT-II and erection of ICT-I and ICT-II Power Transformer.
- Completion of construction of SPR Rooms.

- Erection of C&R panel and SAS system.
- Testing and commissioning of 230/110KV Auto SS at Pillaitheruvasal in Karaikal .
- It is proposed to deposit Rs.1.50 crores with M/s. Power Grid Corporation of India Limited by availing the 4th Tranche of loan from M/s. Rural Electrification Corporation subject to furnishing of final bill by M/s. PGCIL.

6. Object head-wise breakup :

(Rs. in lakhs)

Sl. No.	Name of the Department / Sector	A. Revenue	B. Capital	Total (A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Erection / Establishment /Up gradation / Providing of 230KV and 110 KV Primary Main Sub-stations and EHT lines in the UT of Puducherry.	0.00	749.55	749.55

7. Remarks :Continuing Scheme.

PROFORMA-II (2)

Scheme Number : 2
Sector : Power
Implementing Department : Electricity

1. Name of the scheme : Conversion of HT Over Headlines into UG cables, Modernisation and Augmentation of existing 11 KV RMS system and Rationalisation and Improvement of distribution in urban areas.

2. Objective of the scheme : To meet the rapidly growing demand for Power in and around Pondicherry, Karaikal, Mahe and Yanam with stabilized system parameter and reduced line losses by providing underground cable distribution system and convert existing overhead lines into Under Ground cable system in selected urban areas. To provide additional Power supply through 11 KV feeders to the existing Ring Main system and strengthening the same to meet the load growth in urban areas.

3.Actual physical achievements made in the Annual Plan 2016-17:

Sl.No.	Item description	Units	Achievement
1.	HT UG Cable laid	Kms.	0.733
2.	LT UG Cable laid	Kms.	2.534
3.	Conversion of OH service into UG cable system	Nos.	204
4.	Conversion of OH Street lights into UG cable system	Nos.	19
5.	Erection of Switch Gears	Nos.	22

4.Actual Physical achievement for the Annual Plan 2017-18:

Sl.No.	Item	Units	Achievement
1.	Laying of HT UG cables	Kms.	0.998
2.	Laying of LT UG Cables	Kms.	3.895
3.	Conversion of OH service into UG cable system	Nos.	167
4.	Conversion of OH Street lights into UG cable system	Nos.	14

5. Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No.	Item	Units	Proposed Target
1.	Laying of HT cables	Kms	1.0
2.	Laying of LT cables	Kms	15.00
3.	Conversion of OH service into UG cable system	Nos	600
4.	Conversion of OH Street lights into UG cable system	Nos	50
5.	Erection of 11 KV distribution transformers	Nos.	1
6.	Erection of pillar box	Nos	1

6. Object head-wise breakup :

(Rs. in lakh)

Sl. No.	Name of the Department / Sector	A.Revenue	B.Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Conversion of HT over head lines into UG cables, Modernisation and Augmentation of existing 11 KV RMS system and Rationalisation and Improvement of distribution in urban areas	0.00	295.00	295.00

7. Remarks :Continuing Scheme.

PROFORMA-II (3)

Scheme Number : 3 Implementing Department : Electricity
Sector : Power

1. Name of the scheme : System improvement for reduction of transmission and distribution losses

2. Objective of the scheme : 1. To provide link line with the existing HT feeders and connect up with the existing and new EHV sub-stations to feed additional loads and to reduce the route length of the existing feeders in order to bring down the line losses.
2. To provide additional HT feeders and strengthening the existing HT feeders to feed the additional loads to bring down the voltage regulation within statutory limit and to reduce line losses in the system.

3. Actual physical achievements made in the Annual Plan 2016-17:

Sl.No	Item	Units	Achievement
1.	Transformers energized	Nos.	40
2.	Transformers enhanced	Nos.	16
3.	HT Line laid	Kms.	10.694
4.	LT Line laid	Kms.	11.985
5.	HT Line Strengthened	Kms.	2.594
6.	LT Line Strengthened	Kms.	20.08
7.	HT U.G Cable laid	Kms.	1.547
8.	LT U.G Cable laid	Kms.	0.664

4. Actual physical achievements made in the Annual Plan 2017-18 :

Sl.No.	Item	Units	Achievement
1.	Transformers energized	Nos	21
2.	Transformers enhanced	Nos	2
3.	HT Lines energized	Kms	12.073
4.	LT Lines energized	Kms	7.298
6.	LT Lines strengthened	Kms	11.935
7.	HT U.G Cable laid	Kms	0.245
8.	LT U.G Cable laid	Kms	1.305

5. Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No	Item	Units	Proposed Target
1.	Energisation of Transformers	Nos	25
2.	Enhancement of Transformers	Nos	10
3.	Erection of HT Lines	Kms	10
4.	Erection of LT Lines	Kms	10
5.	Strengthening of HT Lines	Kms	1.0
6.	Strengthening of LT Lines	Kms	10
7.	Laying of HT U.G Cable	Kms	1.5
8.	Laying of LT U.G Cable	Kms	2.0

6. Proposed Outlay for the Annual Plan 2018-19:

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B.Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme :			
	System improvement for reduction of transmission and distribution losses	0.00	1156.50	1156.50

7. Remarks :Continuing Scheme.

PROFORMA-II (4)

Scheme Number : 4
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Extension and Development of power supply to all categories of consumers and Street Lights.

2. Objective of the scheme : 1. To provide adequate and comprehensive infra structure facilities for all categories of consumers, to make use of ground water potential for agricultural purposes, to provide better living conditions to the house/colonies and strengthen the existing distribution system for more stable conditions and to provide additional street lights to ensure better living conditions of the public.

2. To improve the distribution system so as to ensure reliable power supply.

3. Actual physical achievements made in the Annual Plan 2016-17:

Sl.No	Item	Units	Achievement
1.	Transformer energized	Nos	17
2.	Transformer enhanced	Nos	11
3.	HT Line laid	Kms	1.945
4.	LT Line laid	Kms	33.695
5.	LT Line Strengthened	Kms	2.895
6.	HT Industries energized	Nos	20
7.	LT Industries energized	Nos	60
8.	Domestic Services effected	Nos	14174
9.	Commercial Services effected	Nos	2142
10.	Agriculture Services effected	Nos	46
11.	OHOB	Nos	1
12.	Street lights	Nos	189
13.	HT UG Cable laid	Kms	0.15

4.Actual physical achievements for the Annual Plan 2017-18:

Sl.No	Item	Units	Achievement
1.	Transformers energized	Nos	12
2.	Transformers enhanced	Nos	4
3.	HT Line laid	Kms	2.71
4.	LT Line laid	Kms	31.657
5.	HT Line Strengthened	Kms	1.16
6.	LT Line Strengthened	Kms	8.978
7.	HT Industries energized	Nos	13
8.	LT Industries energized	Nos	40
9.	Domestic Services effected	Nos	12539
10.	Commercial Services effected	Nos	1727
11.	Agriculture Services effected	Nos	34
12.	OHOB		3
13.	Street lights	Nos	531
14.	HT UG Cable laid	Kms	0.106
15.	LT UG Cable laid	Kms	0.501

5.Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No	Item	Units	Proposed Target
1.	Energisation of Transformers	Nos	15
2.	Enhancement of Transformers	Nos	10
3.	Erection of HT Lines	Kms	3
4.	Erection of LT Lines	Kms	15
5.	Strengthening of HT Lines	Kms	1
6.	Strengthening of LT Lines	Kms	7
7.	Energisation of HT Industries	Nos	10
8.	Energisation of LT Industries	Nos	40
9.	Effecting of Domestic Services	Nos	12000
10.	Effecting of Commercial Services	Nos	1500
11.	Effecting of Agriculture Services	Nos	30
12.	Effecting of Street lights	Nos	500
13.	Laying of HT UG Cable	Kms	1.5
14.	Laying of LT UG Cable	Kms	3.0

6. Proposed Outlay for the Annual Plan 2018-19

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Extension and Development of power supply to all categories of consumers and Street Lights	0.00	313.00	313.00

7. Remarks: Continuing Scheme.

PROFORMA-II (5)

Scheme Number : 5
Sector : Power
Implementing Department : Electricity

1. Name of the scheme : Rural Electrification

2. Objective of the scheme : To electrify the villages and Harijan areas. To strengthen the existing LT distribution system by enhancing the existing transformers capacities and strengthening of the LT lines in rural areas.

3. Actual physical achievements made in the Annual Plan 2016-17:

Sl.No	Item	Units	Achievement
1.	Transformers energized	Nos	1
2.	HT lines	Kms	0.545
3.	LT lines	Kms	4.715
4.	Strengthening of LT lines	Kms.	1.05

4. Actual Physical achievement for the Annual Plan 17-18:

Sl.No	Item	Units	Achievement
1.	Transformers energised	Nos	1
2.	Transformers enhanced	Nos	2
3.	New HT Lines	Kms.	1.75
4.	New LT lines	Kms	4.12

5. Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No	Item	Units	Proposed Target
1.	Energisation of Transformers	Nos	5
2.	Enhancement of Transformers	Nos.	4
3.	Erection of HT Lines	Kms.	3.0
4.	Erection of LT lines	Kms	5.0
5.	Strengthening of HT lines	Kms	1.0
5.	Strengthening of LT lines	Kms.	1.0

6. Proposed Outlay for the Annual Plan 2018-19

(Rs. in lakh)

Sl. No.	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme</u> Rural Electrification	0.00	40.00	40.00

7. Remarks :Continuing Scheme.

PROFORMA-II (6)

Scheme Number : 6
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Providing meters for all categories of consumers under 100% metering Programme.

2. Objective of the scheme : The objective of the scheme is to provide meters in the distribution system upto 11 / 22 KV feeders and for all categories of consumers.

3. Actual physical achievements made in the Annual Plan 2016-17

- Converted 19,595 nos of Electromechanical meters by Static meters in the L.T. services.

4. Actual physical achievements in the Annual Plan 2017-18

- Converted 8,772 nos of Electromechanical meters by Static meters in the L.T. services.
- Replaced Old type Tri-vector meters by DLMS type meters in the feeders at EHV Sub stations and HT services.

5. Proposed Physical targets for the Annual Plan 2018-19

- Provision of 1,14,912 static meters in existing Electromechanical meters in the L.T. services
- Replacement of existing Tri-vector meters in the HT services by DLMS meter.

6. Object head-wise breakup :

(Rs. in lakh)

Sl. No.	Name of the Department / Sector	A.Revenue	B.Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Providing meters for all categories of consumers under 100% metering Programme	0.00	138.30	138.30

7. Remarks: Continuing Scheme.

PROFORMA-II (7) (Negotiated Loan)

Scheme Number : 7
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Building up of Infra structure facilities in Electricity Department

2. Objective of the scheme : Development of infrastructure facilities and strengthening of the Transmission and Distribution system by Implementation of various Central Sector schemes viz.

(i) Restructured Accelerated Power Development scheme Part A and Part B
(ii) Integrated Power Development Scheme
(iii) Deen Dayal Upadhyaya Gram Jothi Yojana and other Schemes by availing Negotiated Loan.

The scheme comprises of:

- Setting up of new Sub Stations and Augmentation of capacity of existing Sub Stations.
- Renovation & Modernization of the existing Sub Stations.
- Provision/Replacement of Capacitor banks in Sub Stations.
- Establishment of new Distribution feeders and strengthening of the existing feeders.
- Erection of new Distribution Transformers and enhancing the capacity of the existing Distribution Transformers.
- Earthing of Distribution Transformers, etc.,

3. Actual Physical achievements made in the Annual Plan 2016-17

- One RTU and two FRTU's along with Control Centre at Vengata Nagar were commissioned.
- Replaced the existing Electromechanical O/C and E/F relays of feeder panels of existing 110/22 Marapalam, Kurumbapet and Kalapet Sub Stations with Numerical Over Current and Earth fault Relays with accessories capable of communicating with RTUs proposed under SCADA/DMS package along with Annunciator panels and AC/DC System.
- Award of work has been made for provision of 40nos. of new Automated RMUs at 40 locations by replacing the existing old RMUs required for SCADA/DMS system. Erection works have been completed at the following 28 locations.

Sl.no	RMU yard locations.
1.	Distillery SS I
2.	Padmini SS
3.	Rathna SS
4.	Veeramamunivar SS
5.	11 KV Railway RMS SS yard
6.	Mullah SS-I & 2
7.	South boulevard yard
8.	11 KV Golkonda RMS yard
9.	Botanical yard
10.	11 Easwaran RMS yard
11.	S.V. Patel yard
12.	11 KV Papermill RMS yard
13.	Immaculate
14.	Chest clinic
15.	Laporte yard
16.	11 KV Anandha RMS yard
17.	11 KV Ambala yard
18.	BSNL yard
19.	11 KV cable RMS yard
20.	Bazaar Switch yard
21.	Assembly yard
22.	G.H. yard
23.	Sourcouf yard
24.	PWD yard
25.	Sonampalayam yard
26.	AIR yard
27.	Thirumoolar yard
28.	M.G. Road (Indoor)

16 nos. of 22 KV/0.433 KV, 315 KVA Distribution Transformers were installed in various O&M areas of Puducherry Town under R-APDRP, Part-B scheme as detailed below:

- Gorimedu O&M : 2 nos.
- Boomianpet O&M : 4 nos.
- Villianur O&M : 3 nos.
- Muthirapalayam O&M : 6 nos.
- Ashok Nagar O&M : 1 no.

4.Actual physical achievements for the Annual Plan 2017-18.

- Four RTU and 132 FRTU's along with Fibre Optic Network, integration of DR Centre at Bahour 230KV SS with Control centre at Vengata Nagar were commissioned.

- Two nos. of 25MVA Power Transformers, one each at 110/22KV Kurumbapet SS and 110/22KV Villianur SS have been erected and successfully commissioned.
- Works completed for provision of new Automated RMUs at the following 12 locations by replacing the existing old RMUs required for SCADA/DMS system.

Sl.no	RMU yard locations.
1.	Kamaraj RMS Yard
2.	Raman (Indoor)
3.	Jayaram Yard (Indoor)
4.	Kumraguru SS II Yard
5.	11KV Kriemens Yard I & II
6.	Bazar Saint Lawrence
7.	11KV Kandan RMS Yard
8.	Petit Canal Yard
9.	Market RMS Yard
10.	Vallalar Yard
11.	Water Tank RMS Yard
12.	Railway HT consumer RMS Yard

- The work of provision of Wedge Connectors at HT cut points in under progress.
- The work of provision of Earth Electrodes for the existing Distribution Transformers is under progress and so far 1800nos. out of 2100nos. have been completed.
- 30,000nos. of Single Phase LPRF meters and 12,500nos. of Three Phase LPRF meters have been procured and distributed to various O&M sections for replacement.
- 6nos. of 11KV, 630KVATransformers and 5nos. of 11KV, 315KVATransformers have been procured.

13 nos. of 22 KV/0.433 KV, 315 KVA Distribution Transformers were installed in various O&M areas of Puducherry Town under R-APDRP, Part-B scheme as detailed below:

- Muthialpet O&M : 1 no.
- Town South Central O&M : 2 no.
- Murungapakkam O&M : 2 nos.
- Muthirapalayam O&M : 3 nos.
- Gorimedu O&M : 2 nos.

- Boomiyampet O&M : 1 no.
- Villianur O&M : 1 no.
- Saram O&M : 1 no.

5. Proposed Physical Targets proposed for the Annual Plan 2018-19.

- Site Acceptance Tests will be completed and the SCADA/ DMS Control Centre will be put in Operation.
- 17 nos. of 22 KV/0.433 KV, 315 KVA Distribution Transformers are proposed to be provided in various O&M areas of Puducherry Town under R-APDRP, Part-B scheme as below:

Villianur O&M	2 nos.
Muthirapalayam O&M	3 nos.
Muthialpet O&M	3 nos.
Murungapakkam	2 no.
Saram O&M	1 no.
Mudaliarpeta O&M	2 nos.
Town South Central O&M	1 no.
Ashok Nagar O&M	2 nos.
Kalapeta O&M	1 no.

- Provision of 22KV Capacitor banks at Marapalam SS ,Kurumbapeta SS & Kalapeta SS.
- Provision of Fault Passage Indicator in the Distribution system of Puducherry Town.
- Balance work of provision of Wedge Connectors in LT & HT Cut points will be completed.

R-APDRP –B System Improvement

(i).Actual physical achievements made in the Annual Plan 2016-17:

Sl.No.	Item description	Units	Achievement
1.	HT UG Cable laid	Kms.	1.709
2.	LT UG Cable laid	Kms.	0.24
3.	Conversion of 22KV Transformer into 11KV Transformer	Nos.	1
4.	Erection of Switch Gears	Nos.	8

(ii) Actual Physical achievement for the Annual Plan 2017-18:

Sl.No.	Item	Units	Achievement
1.	HT UG cables laid	Kms.	2.10

(iii) Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No.	Item	Units	Proposed Target
1.	Laying of HT UG cables	Kms	6.0
2.	Conversion of 22KV Transformer into 11KV Transformer	Nos.	5
3.	Erection of New Transformers	Nos	5

DeenDayalUpadhyaya Gram JothiYojana (DDUGJY)

Objective of the scheme : Providing reliable and quality power supply to all Villages and reduction of line losses .

Proposed Works for the Annual Plan 2018-19:

Sl.No.	Item	Units	Proposed Works
1.	Erection of new 22/11 KV feeders	Kms	39.50
2.	Erection and enhancement of 22KV Distribution Transformer	Nos	21
3.	Erection of 22KV Spur line	Kms	8.56
4.	Erection of LT Overhead lines	Kms	12.95
5.	Provision of Electro Static meters	Nos.	79,912
6.	Augmentation of 33/11KV Sub station	Nos.	1

Integrated Power Development Scheme (IPDS)

Objective of the scheme : Reduction of AT&C losses and improvement in quality and reliability of power supply in Town areas.

6. Proposed Works for the Annual Plan 2018-19:

Sl.No.	Item	Units	Proposed Works
1.	New 22KV Line feeder / bifurcation of feeders(each one feeder in Marapalam SS, Villianur SS &Kurumbapet SS	Kms	15
2.	22KV Line bay extension at EHV Substation (MPLM-1,VLR SS-1, KMBPT SS-1)	Nos	3
3.	Aerial Bunched Cable(LT) in Mahe and Yanam	Kms	8
4.	11KV UG Cable feeder each one in Karaikal, Mahe & Yanam	Kms	14
5.	Provision of 11KV bay equipment only at Karaikal & Yanam	Nos.	2
6.	Provision of Indoor type Switchgear panel with associated equipment including 1RMU at Palloor SS	Nos.	1
7.	New 22/0.433KV, 315KVA Distribution Transformer	Nos.	20
8.	New 11/0.433KV, 200KVA Distribution Transformer	Nos	30
9.	Installation of Capacitor bank	Nos	5
10.	Installation of HVDS 63KVA	Nos	15
11.	Replacement of Single phase Static meter with LPRF	Nos	30,000
12.	Replacement of Three phase Static meter with LPRF	Nos	5,000
13.	Provision of Solar Panel	Kw	240
14.	Provision of 11KV RMU	Nos	3

7. Object head-wise breakup :

Sl. No.	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme Building up of infra structure facilities in the Electricity Department	0.00	7000.00	7000.00

8. Remarks: Continuing Scheme

PROFORMA-II (8)

Scheme Number : 8
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : SUSPENSE

2.Objective of the scheme : To purchase electrical items, machineries, scientific equipments and other assets for the UT of Puducherry.

3.Object head-wise breakup : (Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> SUSPENSE	0.00	1900.00	1900.00

4. Remarks: Continuing Scheme.

REVENUE SCHEMES

PROFORMA-II (1)

Scheme Number : 1
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Interest on Security Deposit

2. Objective of the scheme : Payment of interest on Security Deposit to LT /HT Consumers in the UT of Puducherry as per the JERC guidelines.

3. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Interest on Security Deposit	700.00	0.00	700.00

4. Remarks: Continuing Scheme.

PROFORMA-II (2)

Scheme Number : 2
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Direction and Administration

2. Objective of the scheme : Payment of Salary, OTA, Medical Treatment, stipend and other recurring expenditure to the Non-technical Staff of Electricity Department.

3. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Direction and Administration	1647.59	0.00	1647.59

4. Remarks: Continuing Scheme.

PROFORMA-II (3)

Scheme Number : 3
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Executive Establishment

2.Objective of the scheme : Payment of Salary, Wages, OTA, Medical Treatment, stipend and other recurring expenditure to the Technical Staff of Electricity Department.

3.Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Executive Establishment	14158.80	0.00	14158.80

4. Remarks: Continuing Scheme.

PROFORMA-II (4)

Scheme Number : 4
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Office of the Consumer Grievances Redressal Forum (CGRF)

2. Objective of the scheme : Payment of Salary, Medical Treatment, rent and other Contractual services to the Staff of CGRF.

3. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Office of the Consumer Grievances Redressal Forum	94.81	0.00	94.81

4. Remarks: Continuing Scheme.

PROFORMA-II (5)

Scheme Number : 5
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Payment of current consumption charges, Water consumption charges, Telephone charges etc

2. Objective of the scheme : Payment of Current consumption charges, Water consumption charges, Telephone charges etc for the Electricity Department.

3. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Payment of current consumption charges, Water consumption charges, Telephone charges etc	110.00	0.00	110.00

4. Remarks: Continuing Scheme.

PROFORMA-II (6)

Scheme Number : 6
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Purchase of Power

2.Objective of the scheme : Payment for the Power purchased from various Central Generating Stations, Puducherry Power Corporation Limited, Tamil nadu Generation Corporation(TANGEDCO), Payment of all kinds of other charges such as Transmission charges, PoC charges, Purchase of renewable energy/ Renewable energy certificates etc..

3.Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Purchase of Power	142000.00	0.00	142000.00

4. Remarks: Continuing Scheme.

PROFORMA-II (7)

Scheme Number : 7
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Provision of Electrical Works in Govt. buildings

2. Objective of the scheme : Electrical maintenance of Govt Buildings in the entire UT of Puducherry Region .

3. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Provision of Electrical Works in Govt. buildings	260.12	0.00	260.12

4. Remarks: Continuing Scheme.

PROFORMA-II (8)

Scheme Number : 8
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Modernization of billing methods and development and 'E' Governance initiatives and improvement of communication methods of the Electricity Department Puducherry.

2. Objective of the scheme : To modernize issue of bills for current consumption charges, payments and other commercial and technical activities by introducing Computers and to establish effective communication network among various sub-stations and O&M sections for minimizing power interruption period.

3. Actual physical achievements made in the Annual Plan 2016-17:

- Procurement of Data processing forms and consumables
- Finalization of Annual maintenance contract for computer systems and UPS units.
- Implementation of Part-A(IT) of R-APDRP Scheme in the UT of Puducherry.
- Establishment of Communication network from various offices with DATA centre at TANGEDCO by M/s. BhartiAirtel, Chennai under Part-A(IT) of R-APDRP Scheme
- Extension of SB collect facility provided by State Bank of India to all the LT consumer of the UT of Puducherry.
- Purchase of 61 nos of UPS batteries(12 volts).
- Payment of Spectrum charges

4. Actual Physical achievements for the Annual Plan 2017-18:

- Procurement of Data processing forms and consumables.
- Finalization of Annual maintenance contract for computer systems,peripherals and UPS units. Implementation of Part-A of R-APDRP Scheme in the UT of Puducherry
- Activation of All India Toll free number 1912 and 180-0425-1912.
- Payment of Spectrum charges for VHF sets

5. Proposed Physical Targets for the Annual Plan 2018-19:

- Upgrading of existing Network and Computer systems and printers
- Introduction of E-Governance as per Government of India guidelines.
- Conversion of Internet Web pages for the department as per the Guidelines of Indian Govt Websites(GIGW).
- Transferring the Internet Web pages of the department from the Data Centre of NIC, New Delhi to the State Data Centre, Govt of Puducherry.
- Development of Intra Departmental Intranet Pages under Part-A(IT) of R-APDRP Scheme .
- Establishment of Customer Care cum Call Centre for collection of application forms for various services and attending Fuse off call complaints round theClockunderPart-A(IT) of R-APDRP Scheme
- Purchase of new Computer Systems and Dot Matrix printer for the department through the GeM portal.
- Purchase of Uninterrupted Power supply units for Computers.
- Purchase of batteries (12 volts) for UPS units.
- Puducherry
- Payment of Royalty and license fees
- Purchase of spares for maintenance of VHF sets.

Facilities available for the consumers of electricity:

- Automatic entry and transfer of meter reading data through meter reading instrument (MRI) and scheduling of billing Decentralized processing, printing of bills and notices.
- 24x7 online internet bill payment and establishment of anywhere bill payment counters.
- Online access of power consumption, bill dues, bill payments, service conditions and meter working conditions.
- Online alerts (email & SMS) upon generation of bills and reminder for payment of dues.
- Registration and monitoring of complaints and grievances through 24x7 call centre operation.

6. Object head-wise breakup :

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Modernisation of billing methods and development and 'E' Governance initiatives and improvement of communication methods of the Electricity Department Puducherry.	68.30	0.00	68.30

7. Remarks: Continuing Scheme.

PROFORMA-II (9)

Scheme Number : 9
Sector : Power

Implementing Department : Electricity

1. Name of the scheme : Establishment of Computer based system monitoring centre in Pondicherry.

2. Objective of the scheme : To have control of the 110 KV Sub-stations for data acquisition and Tele-metering and Tele-operation.

3. Actual Physical achievements made in the Annual Plan 2016-17:

- ULDC Tariff charges bill payment to M/s PGCIL, for an amount of Rs.127.47 lakhs.
- Procurement of 2 nos. of ETL-41 CC set from M/s ABB Limited., for an amount of Rs. 6.00 lakhs.
- An amount of Rs.1.84 lakhs has been incurred for procurement of Multifunction Transducers from M/s ICD, Chennai.
- MUX-AMC charges payment (4th quarter) for an amount of Rs.0.62 lakhs.
- Payment of RILC renewal charges for an amount of Rs.0.51 lakhs.
- Replacement of RTU & IF panel lock for an amount of Rs.0.18 lakhs.
- Annual Maintenance of SCADA System and its associated accessories in System Control Centre.

4. Actual Physical achievements made in the Annual Plan 2017-18:

- ULDC tariffcharges payment has been made to M/s PGCIL.
- Furniture for SCADA/DMS Control Centre at Vengata Nagar Substation provided.

5. Proposed Physical Targets for the Annual Plan 2018-19:

- Replacement of the faulty PLCC, RTU and FO equipment modules in order to have reliable voice and data communication between Sub Stations.
- Replacement of the existing 100AH VRLA battery bank by 200AH VRLA for UPS-I & II provided in the battery room of System Control Centre.
- Annual Maintenance works of SCADA System in System Control Centre.
- Payment to be made to M/s PGCIL towards the ULDC up-gradation project.

- Video Conferencing System for the SCADA/ DMS Control Centre along with infrastructure requirement. Besides facilities maintenance including Bandwidth charges proposed.

6. Proposed Outlay for the Annual Plan 2018-19:

(Rs. in lakh)

Sl. No	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	<u>Name of the Scheme :</u> Establishment of Computer based System Monitoring Centre in Pondicherry	348.90	0.00	348.90

7. Remarks: Continuing Scheme.

PROFORMA-II (11)

Scheme Number : 11
Sector : Power

Implementing Department : Electricity

1. Name of the scheme	: Formation of Electrical Inspectorate and licensing board for Pondicherry.
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2. Objective of the scheme

1. Inspection of the electrical installation in the Union Territory of Pondicherry and issue of Safety Certificates.
2. Issue of different grades of supervisory permits and contractor licenses to all qualified persons / firms to enable them to undertake electrical installation / maintenance work in the Union Territory of Pondicherry.

3. Actual physical achievement during Annual Plan 2016-17:

- Renewed 846 nos of different grades of Supervisory permits and contractors licenses and procured Stationery items for Licensing Board.

4. Actual physical achievement for the Annual Plan 2017-18:

- Renewed 846 nos of different grades of Wireman Supervisory permits and Contractor Licenses.
- Procurement of Stationery items for smooth functioning of the Licensing Board.

5. Proposed physical Targets for Annual Plan 2018-19:

- Renewal of existing 846nos of different grades of Supervisory permits and contractors licenses.
- Constitution of Electrical Inspectorate in the U.T.ofPuducherry
- Appointing of Chief Electrical Inspector, Electrical Inspectors & their Complementary Staff
- Re-constitution of Licensing Board
- Issuance of different grades of Supervisory permits & Contractor licenses.

6.Object head-wise breakup :

(Rs. in lakh)

Sl. No.	Name of the Department / Sector	A. Revenue	B. Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Formation of Electrical Inspectorate and licensing board for Pondicherry.	135.10	0.00	135.10

7.Remarks: Continuing Scheme.

PROFORMA-II (12)

Scheme Number : 12 Implementing Department : Electricity
Sector : Power

1. Name of the scheme : Human Resources and Development

2. Objective of the scheme : The objective of the scheme is to upgrade the knowledge of the officers/staff in Technical/other important sectors like reforms through agencies like NPTI,PSTI etc.

3. Actual physical achievements made in the Annual Plan 2016-17:

Sl.No	Item	Units	Achievement
1.	Imparted Internal training to Officers	Nos.	237
2.	Imparted Internal training to Staff	Nos.	640
3.	Imparted External training to Officers	Nos.	13

4. Actual physical achievementsfor the Annual Plan 2017-18:

Sl.No	Item	Units	Achievement
1.	Imparted Internal training to Officers	Nos	30
2.	Imparted Internal training to Staff	Nos	269
3.	Imparted External training to Officers	Nos	20
4.	Imparted External training to Staff	Nos	4

5. Proposed Physical Targets for the Annual Plan 2018-19:

Sl.No	Item	Units	Proposed Target
1.	Imparting Internal training to Officers	Nos	100
2.	Imparting Internal training to Staff	Nos	300
3.	Imparting External training to Officers	Nos	30
4.	Imparting External training to Staff	Nos	15
5.	Conducting training day for each month	Nos	50
6.	Imparting Safety classes to the technical staff at SS & Distribution	Nos	240

6. Object head-wise breakup :

(Rs. in lakh)

Sl. No.	Name of the Department / Sector	A.Revenue	B.Capital	Total(A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Human Resources and Development	10.00	0.00	10.00

7. Remarks: Continuing scheme.

Scheme Number : 13
Sector : Energy

Implementing Department : Electricity

PROFORMA-II(13)

1. Name of the scheme : Development of Non-Conventional sources of energy.

2. Objective of the scheme : The objective of the scheme is to promote the use of new and renewable sources of energy and to conduct research and development on renewable sources of energy. Setting up of solar pond for production of thermal and electrical energy.

3. **Proposed Target for the Annual Plan 2018-19:**

An outlay of Rs. 67.00 lakhs is proposed for the Year 2018-19 for payment of Salary for the existing Staff through salary component as Grant in aid.

4. **Object head-wise breakup :**

(Rs. in Lakh)

Sl. No.	Name of the Department / Sector	A.Revenue	B. Capital	Total (A+B)
(1)	(2)	(3)	(4)	(5)
	Name of the Scheme : Development of Non-Conventional sources of energy.	67.00	0.00	67.00

PROFORMA-III

(a)SECTORAL WRITE-UP (GENERAL)

Power Sector

Power Position

The Union Territory of Puducherry consists of four regions, geographically located in three different States. There is no major power generation in the Union Territory of Puducherry. The requirement of power for the Puducherry, Mahe&Yanam regions are met from the allocation of power from the Central Generating Stations. The power requirement of Karaikal region is met from the Puducherry Power Corporation Limited (PPCL) and from the TANGEDCO.

The total power allocation from CGS is 484 MW, the power availed from TANGEDCO is 80 MW and 32.5 MW of power is availed from Puducherry Power Corporation Limited (PPCL).

II. POWER INFRASTRUCTURE

Power to Puducherry region is fed through three numbers of 230/ 110 KV Auto Sub-Stations with total installed capacity of 560 MVA. Ten 110/22-11 KV Sub-Stations with a total installed capacity of 431 MVA and One number of the 110/11 KV Sub-Station with installed capacity of 63 MVA are connected to the above auto Sub-stations.

Power to Karaikal region is fed through two numbers of the 110/11 KV Sub-Stations with installed capacity of 80 MVA owned by EDP and one number of the 110/ 11 KV Sub-Station owned by PPCL with installed capacity of 30 MVA owned by Puducherry Power Corporation Limited.

In Mahe region, there is one 110/11 KV Sub-station of capacity 20 MVA and in Yanam region, there is one number of 132/33-11 KV Sub-stations of capacity 36 MVA and one 33/11 KV Sub-station of capacity 10 MVA.

Actual physical achievements for the Annual Plan 2016-17.

Actual physical achievements for the Annual Plan 2016-17.

- **Establishment of new 230 / 110 KV Auto Sub Station at Karaikal.**
- Major equipments i.e. Circuit Breakers, Isolators, CVT, 230KV Switch Yard Lattice structure materials, pipe structures. C.T, control & Relay panels etc., have been supplied and arrived at site.
- Site leveling completed. Tower and equipment foundation work started.
- Sanction of the Government has been obtained for availing loan from M/s REC for an amount of Rs.43.35 crores vide G.O. Ms. No. 05, dated: 07-02-2017.
- Sanction of the Government has also been obtained and Loan availed from REC with the approval of the Government vide:-
 - G.O. Rt. No.94, dt: 20-03-2017 for Rs. 17.50 Crore.
 - G.O. Rt.No. 98, dt: 30-03-2017 for Rs. 8.00 Crore.
- An amount of Rs.25.50 crore has been deposited with M/s. PGCIL for the establishment of 230/110KV Sub Station at Karaikal.

Erection of 1x16 MVA Power Transformer at 110 KV, Vengata Nagar Sub Station.

- 100% work completed.
- A 110/22 KV, 16 MVA, Power Transformer was energized on 01-02-2017.
- **Establishment of 110/22 KV Sub Station in the premises of 230/110 KV Auto Sub Station at Thondamanatham.**
- **Civil works:**
 - Equipment foundation – 42/76 completed.
 - Tower foundation – 10/12nos. tower foundation completed.

Renovation and Modernization of 110/22 KV Villianur Sub Station.

- Phase I (LV 04 associated bays + 110KV main bus area) R & M works have been completed.
- The balance work could not be completed, as this department is not in a position to shift the existing feeder loads to the neighboring Sub-Station due to loading constraints in the Sub-Station Transformation capacity and link feeder.

Strengthening of 2nd circuit of 110 KV Bahour – Eripakkam feeder.

- Work order issued for stringing of 2nd phase of works from tower location No.21 to 39.
- Work order issued for stringing of 2nd phase of works from tower location No.39 to 63.

Actual Physical achievement for the Annual Plan 2017-18

- 2 nos of 100MVA Power Transformers arrived at site.
- On line insulating oil drier system, Fire Protection system, 110KV Steel structures, Cables & Hardware arrived at site
- 230KV and 110KV Tower and equipment foundations are under progress.
- 70% of ICT-I & ICT-II foundation and associated civil structure works completed.
- An amount of Rs.10.73 crores has been deposited with M/s. Power Grid Corporation of India Limited for the on going work of establishment of 230/110KV Auto SS at Pillaitheruvasal in Karaikal by availing the 3rd Tranche of loan from M/s. Rural Electrification Corporation.

Under normal development schemes, the achievements during the year 2017-18

- Energized 38 numbers of new distribution transformers of various capacities and enhanced 9 numbers of existing distribution transformers to higher capacities.
- 18.134 Kms of new HT lines and 44.215 Kms of new LT lines were energized and 1.16Km of existing HT lines and 22.888 Kms of existing LT lines were strengthened.
- Energized 13 numbers of new HT industrial services and 40 numbers of new LT industrial services.
- Effected 12539 numbers of new domestic services, 1727 numbers of new commercial Services, 34 numbers of new agricultural services and 540 numbers of new Street Lights.
- In addition, 4.166Kms of new HT UG cables and 5.31Kms of new LT UG cables were laid and converted 132 numbers of OH services and 14 numbers of OH street lights into UG cable system.
- 8557 nos of Electromechanical meters were replaced into Static meters.
- External training was given to 20 Nos of Officers and also internal training was given to 30 nos of Officers and 269 Nos of staff.

Proposed Physical Targets for the Annual Plan 2018-19.

- Completion of balance Tower & Equipment foundation works.
- Erection of lattice structures and equipments.
- 230KV and 110KV Bus stringing.
- Completion of the balance foundation and associated Civil structure works of ICT-I and ICT-II and erection of ICT-I and ICT-II Power Transformer.
- Completion of construction of SPR Rooms.
- Erection of C&R panel and SAS system.
- Testing and commissioning of 230/110KV Auto SS at Pillaitheruvasal in Karaikal .
- It is proposed to deposit Rs.1.50 crores with M/s. Power Grid Corporation of India Limited by availing the 4th Tranche of loan from M/s. Rural Electrification Corporation subject to furnishing of final bill by M/s. PGCIL.

Under normal development schemes, the following programmes are proposed during 2018-19

- It is proposed to energize 50 numbers of new distribution transformers of various capacities and to enhance the capacity of 30 numbers of existing distribution transformers.
- To erect 20Kms of new HT lines and 40Kms of new LT lines and also to strengthen 3Kms of existing HT lines and 20Kms of existing LT lines.
- With the completion of the above, it is proposed to connect 12000 numbers of domestic services, 1500 numbers of commercial services, 30 numbers of agricultural services, 10 numbers of HT Industrial services, 40 numbers of LT Industrial Services and 500 numbers of new Street lights are also proposed to be energized during this period.
- It is also proposed to lay and energize 3.00Kms of new HT UG cables and 5.0Kms of new LT UG cables to convert 200 numbers of OH services and 20 numbers of OH Street lights into U.G. cable system.
- It is proposed to give internal training to 100 officers and 300 staffs and to give external training to 30 officers and 15 staffs respectively.

PROFORMA-IV

Sector : Power
Implementing Department : Electricity

Region- wise Financial and Physical Achievements and Outlay

(a)Financial Achievements and Outlay

(Rs. in lakhs)

Sl.No	Name of the Scheme	Annual Plan 2016-17	Annual Plan 2017-18		Annual Plan 2018-19		
		Actual Expdr.	Approved Outlay	Revised Outlay	Outlay Proposed		
					Capital	Revenue	Total (6 & 7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Puducherry	111721.95	100903.33	111900.22	11308.45	146588.84	157897.29
2	Karaikal	17916.06	18195.55	15849.05	244.20	11747.89	11992.09
3	Mahe	3095.04	3529.80	2964.38	80.90	487.41	568.31
4	Yanam	398.70	508.52	447.86	59.80	482.71	542.51
Total		133131.75	123137.20	131161.51	11693.35	159306.85	171000.00

(b) Region wise Physical performance in bullet points :

(Puducherry/ Karaikal/ Mahe/ Yanam)

I. Actual physical achievements made during 2016-17:

1.Puducherry region:-

Erection of 1x16 MVA Power Transformer at 110 KV, Vengata Nagar Sub Station.

- 100% work completed.
- A 110/22 KV, 16 MVA, Power Transformer was energized on 01-02-2017.

• **Establishment of 110/22 KV Sub Station in the premises of 230/110 KV Auto Sub Station at Thondamanatham.**

• **Civil works:**

- Equipment foundation – 42/76 completed.
- Tower foundation – 10/12nos. tower foundation completed.

Renovation and Modernization of 110/22 KV Villianur Sub Station.

- Phase I (LV 04 associated bays + 110KV main bus area) R & M works have been completed.
- The balance work could not be completed, as this department is not in a position to shift the existing feeder loads to the neighboring Sub-Station due to loading constraints in the Sub-Station Transformation capacity and link feeder.

Strengthening of 2nd circuit of 110 KV Bahour – Eripakkam feeder.

- Work order issued for stringing of 2nd phase of works from tower location No.21 to 39.
- Work order issued for stringing of 2nd phase of works from tower location No.39 to 63.
- 65 numbers of new distribution transformers of various capacities were commissioned and 21 numbers of existing distribution transformers were enhanced into higher capacities.
- 8.998Kms of new HT lines and 34.456Kms of new LT lines were energized,11086nos of Domestic Services, 1613nos of Commercial Services,15nos of HT industrial Services, 49nos of LT industrial Services,26 nos of Agriculture Services and 189 nos of street light services were effected.

2.Karaikal region:-

- **Establishment of new 230 / 110 KV Auto Sub Station at Karaikal.**
- Major equipments i.e. Circuit Breakers, Isolators, CVT, 230KV Switch Yard Lattice structure materials, pipe structures. C.T, control & Relay panels etc., have been supplied and arrived at site.
- Site leveling completed. Tower and equipment foundation work started.
- Sanction of the Government has been obtained for availing loan from M/s REC for an amount of Rs.43.35 crores vide G.O. Ms. No. 05, dated: 07-02-2017.
- Sanction of the Government has also been obtained and Loan availed from REC with the approval of the Government vide:-
 - G.O. Rt. No.94, dt: 20-03-2017 for Rs. 17.50 Crore.
 - G.O. Rt.No. 98, dt: 30-03-2017 for Rs. 8.00 Crore.
- An amount of Rs.25.50 crore has been deposited with M/s. PGCIL for the establishment of 230/110KV Sub Station at Karaikal.
- 13numbers of new distribution transformers of various capacities were commissioned and 8 number of existing distribution transformers were enhanced into higher capacities.
- 5.345Kms of new HT lines and 16.224Kms of new LT lines were energized and 2422nos of Domestic Services, 411nos of Commercial Services, 5 nos of HT industrial services, 7nos of LT industrial Services, 19nos of Agriculture Services .

3.Mahe region:-

- 0.875Kms of new LT lines were energized and 190nos of Domestic Services, 92nos of Commercial Services, 1 no of LT industrial Services.

4.Yanam region:-

- 2numbers of new distribution transformers were commissioned and 2 numbers of existing distribution transformers were enhanced into higher capacities.
- 1.74Kms of new HT lines were energized, 1.205Kms of new LT lines were energized and 476nos of Domestic Services, 26 nos of Commercial Services, 3nos of LT industrial Services and 1 no of Agriculture Service were effected.

II) Actual physical achievements during 2017-18:

1. Puducherry region:-

- 2 nos of 100MVA Power Transformers arrived at site.
- On line insulating oil drier system, Fire Protection system, 110KV Steel structures, Cables & Hardware arrived at site
- 230KV and 110KV Tower and equipment foundations are under progress.
- 70% of ICT-I & ICT-II foundation and associated civil structure works completed.
- 27 numbers of new distribution transformers of various capacities are commissioned and 6 numbers of existing distribution transformers are enhanced into higher capacities.
- 11.319Kms of new HT lines and 28.277Kms of new LT lines are energized.
- 10478nos of Domestic Services, 1337nos of Commercial Services, 10nos of HT industrial Services, 36 nos of LT industrial Services, 18nos of Agriculture Services and 453 numbers Of Street lights were effected.

2. Karaikal region:-

- An amount of Rs.10.73 crores has been deposited with M/s. Power Grid Corporation of India Limited for the on going work of establishment of 230/110KV Auto SS at Pillaitheeruvasal in Karaikal by availing the 3rd Tranche of loan from M/s. Rural Electrification Corporation.
- Replacement of 4 numbers of old 11KV type VCB breaker with 11KV outdoor type VCB breaker at 110/11KV Surakudy Substation has been completed at a cost of Rs.14.84 lakhs.
- Shifting of existing 11KV Agalancannu spur line for a length of 2.786 kms from agriculture field side to road side at Agalancannu in Thirunallar, Karaikal has been completed at a cost of Rs.14.37 lakhs.
- 7 numbers of new distribution transformers of various capacities are commissioned and 3 numbers of existing distribution transformers are enhanced into higher capacities.
- 1361nos of Domestic Services, 274nos of Commercial Services, 03nos of HT industrial services, 02nos of LT industrial Services, 13nos of Agriculture Services .

3. Mahe region:-

- From 04.12.2017 onwards, the Mahe region was also brought under Regional Energy Accounting (REA) of Southern Region Power Committee (SRPC) for availing Central Generating Station Power at a lower cost.
- 1.285Kms of new LT lines were energized and 1.84Kms of LT lines were strengthened and 137 nos of Domestic Services,64nos of Commercial Services were effected.

4.Yanam region:-

- 3 numbers of new distribution transformers were commissioned .
- 1.43Kms of new HT lines and 1.625Kms of new LT lines were energized.and 0.925Kms of LT lines were strengthened .
- 418nos of Domestic Services,35 nos of Commercial Services,1no of LT industrial Services and 2 nos of Agriculture services were effected.

III Proposed Physical Targets for the Annual Plan (2018-19)

1.Puducherry region:-

- Completion of balance Tower & Equipment foundation works.
- Erection of lattice structures and equipments.
- 230KV and 110KV Bus stringing.
- Completion of the balance foundation and associated Civil structure works of ICT-I and ICT-II and erection of ICT-I and ICT-II Power Transformer.
- Completion of construction of SPR Rooms.
- Erection of C&R panel and SAS system.
- Testing and commissioning of 230/110KV Auto SS at Pillaitheeruvasal in Karaikal .
- 35numbers of new distribution transformers of various capacities are proposed to be commissioned and 13 numbers of existing distribution transforms are proposed to be enhanced into higher capacities.
- 17.5Kms of new HT lines and 37.66Kms of new LT lines are proposed to be energized.

- 9300nos of Domestic Services,1250nos of Commercial Services,8nos of HT industrial Services, 33nos of LT industrial Services, 18nos of Agriculture Services are proposed to be effected. Further it is proposed to energize500Nos. of Street lights.

2. Karaikal region:-

- It is proposed to deposit Rs.1.50 crores with M/s. Power Grid Corporation of India Limited by availing the 4th Tranche of loan from M/s. Rural Electrification Corporation subject to furnishing of final bill by M/s. PGCIL.
- The works for establishing a 230/110KV Auto substation in the existing 110/11KV Pillaitheeruvassal Substation is nearing completion and will be commissioned by May 2018.
- Under Integrated Power Development Scheme(IPDS), 15 numbers of new distribution transformers of various capacities are proposed to be commissioned and 5.0 kms of HT UG cable are proposed to be laid. 10,000 nos of electro-mechanical and defective meters are proposed to be replaced with electro-static meters.
- Under Deen Dhayal Upadhyaya Gram Jyoti Yojana(DDUGJY) scheme, it is proposed to erect 3 nos of 11KV Rural feeders and 25,000 nos of electro-mechanical and defective meters are proposed to be replaced with electro-static meters.
- 12 numbers of new distribution transformers of various capacities are proposed to be commissioned and 12 numbers of existing distribution transformers are proposed to be enhanced into higher capacities.
- 2000nos of Domestic Services,100nos of Commercial Services,2nos of HT industrial Services,3nos of LT industrial Services, 10nos of Agriculture Services.

3.Mahe region:-

- 2 numbers of existing distribution transforms are proposed to be enhanced into higher capacities.
- 1.00 Kmof existingHT lines and 2.00 Kms of existing LT lines are proposed to be strengthened.
- 200 nos of Domestic Services,100nos of Commercial Services and 2nos of LT industrial Services are proposed to be effected.
- It is proposed to replace 1500nos of Electromechanical / defective meters into Static meters.

- It is proposed to convert 3.942 kms of existing OverHead lines into UG Cable system.

4.Yanam region:-

- 3 numbers of new distribution transformers of various capacities are proposed to be commissioned and 3 number of existing distribution transforms is proposed to be enhanced into higher capacities.
- 2.5Kms of new HT lines and 2.34Kms of new LT lines are proposed to be energized.
- 500nos of Domestic Services,50 nos of Commercial Services, 2nos of LT industrial Services.
- It is proposed to replace 2000 nos of Electro mechanical / defective meters into Static meters.
