

**ELECTRICITY DEPARTMENT
PUDUCHERRY**

**STATUS UPDATE OF IMPLEMENTATION OF CENTRAL SECTOR SCHEMES IN THE UT
OF PUDUCHERRY AS ON AUGUST 2018:**

The Government of India has launched several schemes to strengthen the Transmission and Distribution system, improving the metering system etc. with an aim to ease out the financial burden of the Discoms. The Electricity Department, Puducherry is implementing the following Central Schemes:

1. Restructured Accelerated Power Development and Reforms Programme (RAPDRP) comprising of Part A (IT), Part A (SCADA) and Part B.
2. Integrated Power Development Scheme (IPDS)
3. Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)
4. Power System Development Fund (PSDF)
5. Smart Grid Pilot Project.

The details and progress of the above schemes are as follows:

I. Restructured Accelerated Power Development and Reforms Programme (RAPDRP):

- Programme that aims to strengthen the power distribution system in the urban area of the country to reduce the AT&C losses.
 - Funded and implemented by Ministry of Power in two parts viz. Part A and Part-B through M/s Power Finance Corporation, New Delhi.

I (a): Part-A (IT) is to build an IT infrastructure at an approved cost of Rs. 15.01 Crores. The department has so far availed Rs.4.50 Crores.

Expenditure incurred so far: Out of Rs.4.50 Crores loan availed from the GOI, expenditure for an amount of Rs.3.38 Crores had been incurred so far.

Present Status:

Survey of consumer indexing, Preparation of Design document for installation of hardware and peripherals, Finalisation of Network Service Provider, Supply of Hardware had been completed.

The ITIA could not install the File servers in the Data Centre (DC), Disaster Recovery centre (DRC) and Customer care due to delay in according permission by TANGEDCO as there are certain legal issues between the ITIA

and TANGEDCO and arbitration matter is still pending before the Hon'ble High Court, Chennai.

An integrated demo on the software applications under Part - A (IT) was conducted on 25/04/2017. The department has sought further customization, which the ITIA is yet to complete.

The Department had requested the ITIA to complete the project by hosting the applications through an alternate location in the State Data Centre, Puducherry.

M/s ITI Limited, Chennai had initially furnished a financial proposal for Rs 24.795 Crores on 18/01/2018 and subsequently revised it to Rs 20.00 Crores exclusive of GST on 24/03/2018, for hosting the core applications / modules under Part A (IT) of R-APDRP scheme in the State Data Centre, Puducherry.

The proposal was sent to Executive Director, M/s Power Finance Corporation, New Delhi on 09/04/2018, seeking extension of project completion time upto 31/03/2019 and additional funds of Rs 11.15 Crores over and above the already sanctioned amount to host the core applications / modules under Part A (IT) of R-APDRP scheme in the State Data Centre, Puducherry.

M/s Power Finance Corporation (PFC), New Delhi had replied on 18/04/2018 that additional fund under RAPDRP scheme at this stage may not be feasible, since no new sanction can be given under RAPDRP as per IPDS guidelines. Hence, any additional expenditure towards hosting of IT Applications in the State Data center may be borne by Utility / UT of Puducherry.

Based on the reply, the ITIA has been requested to confirm whether the project could be implemented as suggested by the funding agency, M/s Power Finance Corporation, New Delhi. The ITIA is yet to furnish the details. Reminder to ITIA had been sent on 21.03.2018 and 12.06.2018.

In the meanwhile, M/s Power Finance Corporation, New Delhi has been requested to issue a concurrence for payment of the software development

charges in respect of the core Metering, billing and collection modules through M/s National Informatics Centre, Puducherry.

Presently, the project implementation works had been completely stopped by the ITIA.

As the project has been stalled due to litigation between ITIA and TANGEDCO, the matter has been taken up with PFC on 9-7-2018, for no decision is being taken, the Billing software of the Electricity Department, Puducherry needs immediate improvement. The Electricity Department experiences much difficulty in furnishing the data related to the billing and collection information. KIND ATTENTION OF THE MINISTRY OF POWER IS REQUIRED URGENTLY. PLEASE PFC MAY KINDLY BE GIVEN ADEQUATE DIRECTIONS TO ENSURE THE IMPASSE IS CLEARED BY GOVT. OF INDIA.

I (b): Part-A (SCADA) is to set up a SCADA DMS system at an approved cost of Rs.13.89 Crores. Funds so far availed under the scheme are Rs.4.167 Crores.

Expenditure incurred so far: Out of Rs.4.167 Crores loan availed from the Govt. of India, an amount of Rs.3.764 Crores has been incurred so far. Entire amount of loan availed will be utilised shortly and next tranche of Rs.4.16 Crores will be sought for from Govt. of India during October 2018.

Present Status:

- a. Regarding installation of Hardware and Software at Control Centre established in Vengata Nagar Sub Station, most of the hardware installation were completed. DLP (Digital Light Display) installed at CC. RVDU (Remote Visual Display Units) installed at 7 locations.
- b. Data Recovery Centre at Bahour 230 KV Substation is commissioned.
- c. Installation and end to end testing of RTU's in four sub stations were completed.
- d. Installation of 50 nos of FRTU's were completed and end to end testing of 50 FRTU's were also completed.
- e. Purchase order for communication link was issued to BSNL.
- f. Fibre Optic communication cables received on 9-7-2018 and are to be laid during second week of September 2018.

II. RAPDRP (Part-B) project:

Objective: Renovation and modernization of Distribution system in Puducherry town

Approved by MOP, GOI on 08th March 2013 for an approved cost of Rs.84.78 Crores.

Total amount of Loan so far availed under the scheme:

Rs.35.827 Crores. (GOI Loan amount of Rs 12.717 Crores received in two tranches on 28th march 2014 and 08th May 2014. Counter Part Loan amount of Rs 23.11 Crores received from PFC in two Tranches on 31st March 2017 and 31st March 2018)

Expenditure incurred so far:

Out of Rs. 35.827 Crores loan availed from the GOI, Rs. 29.423 Crores had been incurred as on 09-07-2018.

Electricity Department, Puducherry has so far given Utilization certificate to PFC on 21-03-2018, for an expenditure of Rs 29.217 Crores. The balance amount of Rs.6.61 Crores has been received on 31.3.2018, out of which an amount of Rs.3.97 Crores has been incurred as on 10-09-2018 and a balance amount of Rs. 2.64 Crores only is available and the same will be incurred shortly and utilization certificate will be furnished to Govt. of India in due course.

Time line for completion of project:

Extension of time upto 31stMarch 2019, has been accorded to Puducherry in order to complete the works as per the decision taken in the 12th meeting of Monitoring committee of GOI on 07-06-2018. M/s PFC has also communicated time line vide letter 02:10:R-APDRP(P-B):2018:PED/57532 Dated 03-07-2018.

All works to be completed by 31-03-2019.

Present Status:

- a. Erection of two nos. of 25 MVA Power Transformer at Villianur and Kurumbapet 110/22 KV Substations. – **All works Completed during April & May'2017**
- b. SCADA compatible Ring Main Unit (RMU) panels had been erected in 40 locations in Puducherry Boulevard area.- **All works Completed during 2017**

- c. As on 07-08-2018 erection of 90 nos. of 315 KVA Distribution transformers has been **completed**. Balance 2 nos. of 315 KVA Distribution transformers will be erected after resolving the objections raised by the nearby residents. - **To be completed by Sept' 2018.**
- d. Replacement of 35 nos. of Electro mechanical relays into Numeral Relays in Marapalam, Kurumbapet and Kalapet Sub stations - **Completed during 2016-17.**
- e. 30,000 nos. of single phase and 12,500 nos. of three phase Electronic Energy Meters were procured for replacement of existing Electro mechanical meters /defective meters -**Completed during May 2017.**
- f. Renovation of 2100 nos. of earthing system in Distribution Transformers at various locations - **Completed during May 2018.**
- g. Provision of 11 nos. of 11 KV, 315 KVA and 630 KVA Distribution Transformers. - **Completed during 2017-18.**
- h. Provision of 21389 nos. of Wedge connectors out of 36000 nos. in the LT and HT distribution systems of Puducherry were completed and the remaining provisions are under progress - **To be completed by October 2018.**
- i. Erection of 11 KV cable and allied works- **Major part of work completed .**
- j. *Tender finalised and proposal sent to Government for according sanction for Procurement of additional 11 KV cable procurement for the following works.*
 - *Laying Ht UG cable conversion works at Kanductor Thottam.*
 - *Replacement of 11 KV Market Feeder and 11 KV G.H Feeder.*
- k. *Proposal to be sent to Government for 14 nos. of 11 KV RMU and its allied works.*
- l. Provision of 8 sets of 2.4 MVAR Capacitors banks at various 110/22 KV substations - **Work commenced in July 2018 and to be completed by March 2019.**
- m. Provision of 500 nos. of Distribution Pillar boxes in Puducherry region. Supply Order issued on 15-03-2018 -Tender to be floated for erection works-**To be completed by March 2019.**
- n. Provision of Fault Passage Indicators in HT feeders. - **Work awarded on 01-03-2018 -To be completed by March 2019.**

- o. Erection of 27 nos. of 630KVA Distribution Transformers – Supply Order for supply of DTs issued on 29-08-2018 – Tender to be floated for erection works - ***To be completed by March 2019.***
- p. Sanction of the Govt. of Puducherry had been accorded vide G.O Dated.24.8.2018 for Provision of 70 nos. of 200 KVA Distribution Transformers and the Provisional Supply Order issued on 30.08.2018 and ***the work will be taken up shortly and will be completed by March 2019.***
- q. Tender for replacement of non-SCADA RMUs by new SCADA Ready RMUs opened on 27.7.2018 and under evaluation . - ***To be completed by March 2019.***
- r. Provision of Sectionalisers in 22KV Feeders- Already floated for 3 times and cancelled. Reasons stated below:

	Date of Tender Floated	Reason for cancellation
1	19-02-2016	Due to major change in technical specification, tender cancelled
2	09-06-2016	Only one bid was technically qualified. As no competitive bid, tender cancelled
3	18-09-2017	After opening of Financial offer, L1 could not establish the genuiness of the bid document. Hence tender cancelled

- ***To be retendered and completed by March 2019.***

- s. Re-tender for provision of Automatic Power Factor Controllers (APFC) in Distribution systems has been floated on 03-09-2018 with due date 18-09-2018.
- t. **Establishment of new 110/22KV Sub-station at Lawspet.** Acquisition of part land through HRI was completed during 2011. Acquisition of balance land pertaining to temple /Private party being carried out through Deputy Collector Revenue(North) since 2011. Stay order from High Court, Chennai obtained by the Temple authorities for acquiring land. Verdict issued in

favour of the Temple Authorities. Deputy Collector Revenue (North) is taking further action in this regard.

III. INTEGRATED POWER DEVELOPMENT SCHEME (IPDS):

Under Integrated Power Development Scheme (IPDS), the Electricity Department has planned to implement replacement of 35,000 electro mechanical meters with electronic Meters, Installations of 50 nos of distribution transformers, Construction of new 11 kv underground cable feeders, and over head feeders, erection of Capacitor Banks, High Voltage Distribution System, and installation of 240Kwp Roof Top Solar panels in six statutory towns, in UT of Puducherry at a cost of Rs. 21.63 Crores. Out of the total project cost of Rs.21.63 Crores, 75% of project cost will be received as grant from the Govt. of India and the balance 25% amount will be met from the State Plan Funds. By implementation of the scheme, the Aggregate Technical and Commercial losses will be reduced and the quality of power supply will also be enhanced. The administrative approval and expenditure sanction of the Government has been accorded on 31.3.2018.

Thereafter the department has proposed to be executed under this scheme:

1. Stringing/Bi-furcation of HT Over Head lines.
2. Provision of feeder bay equipments at Karaikal and Yanam EHV SS.
3. Providing of Indoor type VCB at Mahe SS.
4. Erection of new 11 KV RMUs along with UG cable at Karaikal, Mahe and Yanam region.
5. Providing of LT aerial bunched cable at Mahe and Yanam.
6. Installation of new Distribution transformers in the U.T of Puducherry.
7. Metering, Erection of capacitor banks in the U.T of Puducherry.
8. Erection of 63 KVA Distribution transformers under High Voltage Distribution System.
9. Providing of Roof Top Solar Panels (240 KWp) in various Government Buildings.

Project cost: Rs.21.63 Crores

Present Status:

- A. Tender has been floated for Rs.12.06 crores.

B. Status of the floated tenders.

- a. Letter Of Award has been placed for procurement of 30 nos.of 11 KV 200 KVA Distribution transformer and 20 nos of 22 KV 315 KVA Distribution transformers and for erection of 5 nos of online Distribution transformer at Karaikal.
- b. Sanction has been obtained on 06/07/2018 and Provisional LOA placed on 12/07/2018 for 14 Kms of 11 KV cable.
- c. Proposal has been sent to Government of Puducherry for placing Supply Order for supply and erection of 240 Kwp solar plant at Puducherry, Mahe, Karaikal and Yanam regions.
- d. Proposal is being sent to Government of Puducherry for Procurement of 19 Kms of RACOON conductors.
- e. Work order placed for the following
 - 6 nos.of online Distribution transformer at Puducherry
 - 564 mts of re-orientation of NH 22 KV feeders in Villainur substation..
- f. The proposal for issue expenditure sanction is under process to obtain Finance clearance for 30000 nos of single phase and 5000 nos of three phase LPRF meters.
- g. Proposal seeking orders for placing Supply Order has been sent to Government of Puducherry for 3.1 Kms of 22 KV UG Cable.

C. Tenders to be floated

All the other tenders will be floated on or before 30th September 2018.

The target date for completion of award of work will be 31/12/2018 and the works will be completed by 31st March 2019.

IV. DEENDAYAL UPADHYAYA GRAM JYOTI YOJANA (DDUGJY):

In order to meet the consistent increase in electricity demand, particularly in rural areas, the Government of India has launched a programme viz. Deena Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) with aim of strengthening of Sub-transmission & Distribution network & Metering in rural areas. It is proposed to implement the DDUGJY scheme in the Union Territory of Puducherry at a total project cost of Rs. 20.15 Crores covering Puducherry and Karaikal regions. Out of the total project cost, 75% of the project cost will be received as grant from the Govt. of India and the

balance 25% amount will be availed as loan from REC. An amount of Rs.15.05 Crores had been approved for providing feeder metering, DTR metering and consumer metering. An amount of Rs.5.00 Crores had been approved for the system strengthening and Access to Rural Households. An amount of Rs. 1.20 Crores has been received by the Department from Govt. of India as first installment which is the Grant portion.

- Under the above scheme, it is proposed to erect 21 nos of new 22KV Distribution Transformers and associated, 8.56 Kms of new 22KV spur lines, 12.95 Kms of LT overhead lines, 10 kms and 29.50 kms of laying of new 22 and 11KV feeders in Puducherry and Karaikal regions respectively for system strengthening, installation of 51,371 nos and 28,541 nos of meters in the rural areas of Puducherry and Karaikal regions and provision meters for 1250 nos of distribution transformers.

Project cost: Rs.20.05 Crores

Present Status:

- The administrative approval of the Government of Puducherry has been obtained on 12.6.2018 and the expenditure sanction of the Government of Puducherry had been issued vide GO.Rt.No.30/Dated.11-08-2018.
- Proposal has been sent to Government of Puducherry for seeking approval to place Supply order for the following items
 - a) 21 nos of distribution transformers sent on 24.08.2018.
 - b) 1250 distribution transformer metering sent on 27-08-2018.
 - c) 63087 nos of AC single phase consumer meters sent on 10-09-2018
 - d) 12522 Three phase consumer meters sent on 10-09-2018.
 - e) 79 Kms ACSR RACCOON conductor sent on 03.9.2018

The following tenders are under Evaluation.

- a) 5000 Nos of Current transformer for distribution transformer metering.
- b) 1250 SMC Distribution Transformer Metering Box.

The following tenders have already been floated and to be finalized shortly.

- a. Erection of 22 KV Sivaranthagam Feeder
- b. 1100 V Single cored Unarmoured PVC insulated UG cable

The target date for completion of award of work will be 31/12/2018 and the works will be completed by 31st March 2019.

V. POWER SYSTEM DEVELOPMENT FUND (PSDF):

Renovation and Modernisation of indoor and outdoor equipments in Villianur and Bahour 230/110KV Auto Sub Stations at an estimated cost of Rs. 10.56 Crores is being executed under Power System Development Fund of Government of India.

Date of Sanction by GOI - 04-08-2015.

Date of signing agreement - 26-02-2016.

Fund released:

Out of the total project cost of Rs.10.56 Crores, Rs.9.50 Crores is grant from the Government of India and the balance amount will be met from the Puducherry State Plan Funds. The Government of India has released an amount of Rs. 95 Lakhs on 18th May 2017.

Out of Rs. 95 lakhs, an expenditure of only Rs. 23.72 lakhs has been incurred and Utilization certificate is to be given after incurring the entire amount of Rs. 95 lakhs. Government of India will release the Grant amount in accordance with the award of Contracts. An amount of 95 lakhs has been released by Government of India, out of which only RS.23.72 lakhs has so far been incurred. Balance available is Rs.71.28 lakhs. Provisional Work Order issued for Rs.4.47 Crores. Second tranche of Grant amount will be requested/availed after issue of regular work order and in course of execution.

Present Status:

- a. The Battery Bank in the sub-station was *installed during 2017-18*.

- b. Provisional Supply order issued for an amount of Rs.4.47 Crs during August 2018. **After accord of sanction by Govt. of Puducherry, the work to be taken up and will be completed during June 2019.**
- c. Tender for erection of outdoor equipments at 230KV Villianur Auto SS for an estimated cost of Rs.4.06 Crores have been floated. Technical bid opened on 22-06-2018 and Financial Bid under evaluation. **Work will be completed during 2019.**
- d. Tender for erection of outdoor equipments at 230KV Bahour Auto SS for an estimated cost of Rs.1.77 Crores has been floated during June 2018. However, the tender has been closed due to administrative reasons. Re tender proposed during September 2018.

VI.SMART GRID PILOT PROJECT:

The Electricity Department, Puducherry is one of the 14 selected city under the National Smart Grid Mission and approval of the Ministry of Power had also been accorded to implement the pilot project with Installation of 34,600 nos of Smart Meters in the Boulevard area of the Puducherry in the town limits and all the LT CT operated services at a cost of Rs. 33.83 crores with 50% contribution by the Government of India. The consumer shall get the following benefits.

- Consumer Engagement & empowerment with greater control over their energy use and bill.
- Improved quality & reliability of power supply
- Increased life of appliances and gadgets due to improved power quality
- No need to invest in power backup solutions like inverters and Gensets.
- Rooftop renewable generation with facility to feed excess power into the grid
- Improvement in overall consumer satisfaction.
- **Expenditure incurred so far:** The first instalment of Grant amounting to Rs 4.44 Crores availed from the Govt. of India, has been fully utilized and the Utilisation Certificate (UC) has been submitted to Ministry of Power. Accordingly, an amount of Rs 4.44 Crores has been sanctioned by the Government of India as the second instalment on 29.06.2018. Out of the total grant of Rs.8.88 Crores released by the Govt. of India, an amount of Rs.6.04 Crores has been spent so far.

- The work has been awarded to M/s Dong Fang, China and the work is under progress. The Project is programmed to be completed in the middle of the year 2018-19. So far, 20500 Nos. of Smart Meters had been installed in the consumers premises in town area and the Smart Grid Control Centre is ready for functioning.
- Third and final lot of Smart meters had been received on 22-06-2018. 95% of Hardware and Software components had been received. Communication Tower has been erected at Control Centre on 9-7-2018.
- Factory Acceptance Test of CC software has been completed.