

**ELECTRICITY DEPARTMENT
PUDUCHERRY**

**STATUS UPDATE OF IMPLEMENTATION OF CENTRAL SECTOR SCHEMES IN THE UT OF
PUDUCHERRY AS ON DECEMBER 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 has not taken up.

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.

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 has been fully utilised and a further instalment of RS.4.617 Crores being sought.

Present Status:

- a. Regarding installation of Hardware and Software at Control Centre established in Vengata Nagar Sub Station are hardware installation works 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 72 nos of FRTU's were completed and end to end testing of 72 FRTU's were also completed.

Project to be completed by 31.12.2018.

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 28thMarch 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. 35.799 Crores had been incurred as on 12-12-2018.

Electricity Department, Puducherry has so far given Utilisation certificate to PFC on 21-03-2018, for an expenditure of Rs 29.217 crores.

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 10-07-2018 erection of 90 nos. of 315 KVA Distribution transformers have 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 Dec' 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 11KV, 315 KVA and 630 KVA Distribution Transformers. - **Completed during 2017-18.**

- h. Provision of 22270 nos. of Wedge connectors out of 36000 nos. in the LT and HT distributionsystems of Puducherry were completed and the remaining provisions are under progress - **To be completed by March 2019.**
- i. 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.**
- j. Provision of 500 nos. of Distribution Pillar boxes in Puducherry. Supply Order issued on 15-03-2018. Out of 500 nos. of Pillar boxes, 350 nos. received. Balance expected by Dec'2018 -Tender to be floated for erection works-**To be completed by March 2019.**
- k. Provision of Fault Passage Indicators in HT feeders. - Work awarded on 01-03-2018 -Materials received and work under progress - **To be completed by January 2019.**
- l. Erection of 27 nos. of 630KVA Distribution Transformers - Provisional Supply Order for supply of DTs issued on 06-07-2018 - Distribution Transformers received during Nov'2018. Tender finalized for erection scope of works for 13 nos. of DTs. and to be awarded by 3rd week of Dec'2018. Tender to be floated for balance 14 nos. of DT erection works- **To be completed by March 2019.**
- m. Provision of 70 nos. of 200 KVA Distribution Transformers -Original proposal seeking sanction of Govt. of Puducherry was sent on 28-03-2018. Finance Department returned the proposal seeking certain clarifications on 16-05-2018, 29-05-2018 and 04-07-2018. Proposal re-submitted after attending the clarifications on 20-05-2018, 03-06-2018 and finally on 11-07-2018 - Govt. sanction received on 24-08-2018 - Supply order issued on 02-11-2018 - DTs expected by Dec'2018 - Tender to be floated for erection works - **To be completed by March 2019.**
- n. Tender finalized for replacement of non-SCADA RMUs by new SCADA Ready RMUs . Proposal seeking approval of Govt. for award of work to the L1 bidder for an amount of Rs. 7.449 cr. has been sent to Govt. on 10-12-2018. **After accord of sanction by G.O.P, the work to be taken up and completed by March 2019.**

- o. 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

- *In spite of tendering thrice the provision of 22kv Sectionalisers could not be finalised due to inadequate manufactures meeting the requirement, in view of meagre 22kv distribution system available in the Indian Utilities. Hence, work not proposed to be taken up.*

- p. Provision of Automatic Power Factor Controllers (APFC) in Distribution systems. Already floated for 3 times and cancelled. Reasons stated below:

	Date of Tender Floated	Reason for cancellation
1	28-05-2014	L1 quoted rate was 70% more than the approved estimated cost. Hence, tender cancelled
2	06-03-2017	Due to major change in technical specification, tender cancelled
3	15-05-2017	Due to non receipt of sufficient bids, tender cancelled.

- *Re-tendered for 4th time on 03-09-2018. As none of the bids were qualified, the tender was cancelled. Hence, work not proposed to be taken up.*

- q. **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 obtained by the Temple authorities for acquiring land. Hence, work could not be taken up further.

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-furication 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. Supply order has been placed for procurement of 30 nos.of 11 KV 200 KVA Distribution transformer, out of which work order had been issued for installation of 5 nos of distribution transformer at Karaikal and 20 nos of 22 KV 315 KVA Distribution transformers out of which work order had been issued for installation of 6 nos of distribution transformer at Puducherry.
- b. Provisional supply order has been placed for 14 Kms of 11 KV cable.
- c. Supply Order has been erection of 240 Kwp solar plant at Puducherry, Mahe, Karaikal and Yanam regions.
- d. Provisional supply order has been placed for Procurement of 19 Kms of RACOON conductors.
- e. Provisional work order has been placed for 564 mts of re-orientation of NH 22 KV feeders in Villainur substation.
- f. Expenditure sanction obtained and supply order has been placed for 30,000 nos of single phase and 5000 nos of three phase LPRF meters.
- g. Supply Order has been placed for 3.1 Kms of 22 KV UG Cable.
- h. Supply order has been placed for supply of 15 nos of 63 KVA 11/0.433KV Distribution transformer.
- i. Tender has been floated for supply and erection of capacitor banks at outlying regions.

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 had been issued vide GO.Rt.No.30/Dated.11-08-2018.
- Proposal has been sent to Government for seeking approval to place Supply order for the following items
 - a) Supply order has been placed for 21 nos of distribution transformers. Provisional work order to be issued for installation of 10 nos of 22 KV 200 KVA distribution transformers at Thirubuvani sub division and Rural South sub division.
 - b) Provisional Supply order has been placed 1250 distribution transformer metering.
 - c) Provisional Supply order has been placed 63087 nos of AC single phase consumer meters.
 - d) Provisional Supply order has been placed 12522 Three phase consumer meters .
 - e) Provisional Supply order has been placed 79 Kms ACSR RACCOON conductor .
 - f) Sanction of the Government is being sent to Government for procurement of 5000 Nos of Current transformer for distribution transformer metering.
 - g) Sanction of the Government is being sent for 1250 SMC Distribution Transformer Metering Box.

- h) Tender opened and provisional order is being issued for erection of 22 KV Sivaranthagam Feeder
- i) Proposal sent to Government and the sanction of the Governemnet is being awaited for 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):

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.

Present Status:

- a. The Battery Bank in the sub-station have been *installedduring 2017-18*.
- b. Tenders for erection of indoor equipments for an amount of Rs.4.474Crores had been finalized. Sanction of the Govt. received on 30-07-2018- Work order issued during Oct' 2018- *Work commenced and to be completed during 2019-20*.

- c. Proposal for erection of outdoor equipments at 230KV Villianur Auto SS for an estimated cost of Rs.5.67 Crores for the DPR quantity of equipments/ work has been sent seeking sanction of Govt. of Puducherry originally on 23-10-2018 and re-submitted again on 28-11-2018 - **After accord of sanction by G.O.P, the work to be taken up and completed by 2019-2020.**
- d. Tender floated during July'2018 for erection of outdoor equipments at 230KV Bahour Auto SS has been cancelled, due to non available of qualified bids. Re-tender proposed to be floated by the 3rd week of Dec'2018 - **Work to be completed during 2019-2020.**

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 two instalments of Grant amounting to Rs 8.88 Crores availed from the Govt. of India and has been fully utilized and the Utilisation Certificate (UC) has been submitted to Ministry of Power. Accordingly, third instalment of Rs.5.32 Crs has been requested to Ministry of Power.
- The work has been awarded to M/s Dong Fang, China and the work is under progress. So far, 26000 Nos. of Smart Meters had been installed in the consumers premises in town area and the Smart Grid Control Centre is ready for functioning.
- Work under first stage of completion. Project to be completed by 31-12-2018.

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