

Power Development Department (PDD) is one of the Department of Jammu & Kashmir State Government responsible for all functions related to transmission and distribution of electric power in the state. The generation sector is looked after by J&K State Power Development Corporation (JKSPDC), which was carved out of PDD in the year 1995.

Jammu and Kashmir State comprises of three geographically and climatically distinct regions viz; Arctic cold desert areas of Ladakh, temperate Kashmir Valley and subtropical region of Jammu.

Various wings of PDD are looking after T&D related activities in these regions as described below:

1. **Elect. Maintenance and Rural Distribution System in Kashmir Electrification Wing Kashmir** and Ladakh Regions.

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2. **Elect. Maintenance and Rural Distribution System in Jammu Electrification Wing Jammu** Region.

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3. **System & Operation Wing, Kashmir** Transmission System in Kashmir Region.

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4. **System & Operation Wing, Jammu** Transmission System in Jammu Region.

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5. **Planning and Design Wing** Project Engineering, Standardization and procurement of material above 66kV

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6. **Procurement and Material Management Wing** Procurement of material upto 66kV

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7. **Commercial and Survey Wing** Power purchases, SLDC, communication and testing.

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8. **TTIC Wing** Inspection and Training

## **Electric M & RE Wing, Jammu**

### **PROFILE**

Overall distribution at 66 & 33 KV level and below.

Setting up, maintenance and operations of 33/11 KV Sub-transmission system

Setting up, maintenance and operations of 11KV/440V distribution system

The billing of energy to consumers and collections

The face of PDD in dealings with individual consumers.

## **Electric M & RE Wing, Kashmir**

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The billing of energy to consumers and collections

The face of PDD in dealings with individual consumers.

## System & Operation Wing, Kashmir

### PROFILE

- ▶ Overall transmission above 66 & 33 KV level.
- ▶ Setting up, maintenance and operations of 220/132/33 KV Grid stations
- ▶ Setting up, maintenance and operations of 220KV and 132 KV transmission lines.

System & Operations Wing, **Kashmir** is a unit of Power Development Department of Jammu & Kashmir State. Its main task is to upgrade the existing Transmission system and to construct new EHV Grid stations and Transmission lines in Kashmir province besides running and maintaining of EHV Grid stations and Transmission lines up to the level of 220KV. The wing is headed by Chief Engineer and assisted by two Superintending Engineers and eight full fledged divisions in the province headed by the Executive Engineers. Executive Engineers in turn have subordinate sub-divisions with Assistant Executive Engineers and Junior Engineers and well versed Accounts & Administrative branches.

## System Operation Wing, Jammu

Overall transmission above 66 & 33 KV level.

Setting up, maintenance and operations of 220/132/33 KV Grid stations

Setting up, maintenance and operations of 220KV and 132 KV transmission lines.

System & Operations Wing, Jammu is a unit of Power Development Department of Jammu & Kashmir State. Its main task is to upgrade the existing Transmission system and to construct new EHV Grid stations and Transmission lines in Jammu province besides running and maintaining of EHV Grid stations and Transmission lines up to the level of 220KV. The wing is headed by Chief Engineer and assisted by two Superintending Engineers and six full fledged divisions in the province headed by the Executive Engineers. Executive Engineers in turn have subordinate sub-divisions with Assistant Executive Engineers and Junior Engineers and well versed Accounts & Administrative branches.

# Commercial and Survey Wing

## PROFILE

### POWER PURCHASES

- 1.) Scheduling at merit order
- 2.) Power arrangements under exchange with other states and agencies.

Setting up, maintenance and operations of Communication network between different Grids and power houses

Enforcement of power curtailments as per schedule for maintaining of strict grid discipline

Managing operations of the SLDC and Sub LDC

Testing of Electric Protection for all electric installations

## Planning and Design Wing

### PROFILE

Technical study and approval of Projects

Setting up standards of quality control for projects

Procurement process of equipment for Grid stations and transmission lines above 66/33 KV

Planning & Designing has become important & continuous activity. Old Equipments & Systems are being replaced by the new. Infact, Planning & Design activities are influenced by the following:-

1. Changing requirements Of Power Consumers.
2. Changing pattern of electricity generation & Transmission.
3. Feed back on System Studies leading to better design of Systems & Equipment.
4. Availability Of new superior tecnology like HVDC, Fibre Optics Data Transmission etc.
5. Obsolescence Of Old products and systems.
6. Increasing use Of Power Electronics in Electrical Engineering Field

Increasing Use Of Microprocessor, Digital Computer based Programable System of protection & control, use of SCADA, AGC and DAC

In order to take care of the above, Electric Planning and Design Wing was established to ensure efficient and continuous supply of electricity is made available to consumers on Wide geographical area at lowest cost and at specified voltage and frequency i:e Providing of Quality Power.

Electric Planning and Design (EP&D) Wing is one of the premier wings of Power Development Department, Government of Jammu and Kashmir, responsible for perspective planning of infrastructure development in the State based on actual and future demand and availability of power besides Procurement of material/equipment for whole of the State. All key Materials, as mentioned below, used in Transmission of Electric Power above 66KV levels i.e. 132KV & 220KV level are procured through this wing as per the desired technical specification like.

- a) 220KV/132KV/11KV Power Transformers of desired capacity
- b) 132KV/66KV or 132KV/33KV Power Transformers of desired capacity
- c) 220KV, 132KV and 33KV Isolators of different current ratings to suit system conditions.

- d) 220KV, 132KV and 33KV Current transformers of different ratios, burden to suit system conditions
- e) 132KV and 33KV Potential transformers of specified burden and ratio.
- f) 220KV and 132KV SF-6 circuit breakers
- g) 33KV Vacuum circuit breakers (for grid station use)
- h) 220KV, 132KV and 33KV Control and Relay panels
- i) 220KV, 132KV and 33KV lightning arrestors
- j) 220KV, 132kV and 33KV Solid core post insulators
- 1. k)220KV and 132KV Capacitive voltage transformers

**The procurement process is monitored through following stages:**

- 1) Floating of tenders after compilation of tender documents incorporating therein all necessary details like terms & conditions, technical specifications and other details necessary for qualification of tenders.
- 2) Giving wide publicity to the NIT through print and electronic media including sending the NIT to leading manufacturers.
- 3) Receipt of tenders on due date and keeping them in safe custody till opening.
- 3) Opening of technical bids. Processing of technical parameters after comparing them with NIT specifications so as to ascertain which tenders qualify for opening of price bids. Across the table discussions by tender -opening- committee for opening of price bids in presence of bidders or their authorised representatives.
- 4) Processing of the complete case. Its evaluation in terms of financial & technical implications. Despatching the complete case to financial organisation for pre-check for comments and observations regarding financial aspects.
- 5) Preparation of Agenda note of purchase cases incorporating therein reply to pre-check observations and suggested modifications/alterations of financial nature. Circulation of agenda note among the members of relevant purchase committee members. Fixing of date of convening of meeting convenient to all members of the committee.

6) Deleberation of each purchase case threadbare by the relevant purchase committee(of which Chief Engineer EP&D Wing is a standing member). Issuance of the minutes of the meeting contaning decisions taken by the purchase committee.

7) Preparation of detailed Purchase Order as per the decisions of the purchase committee by the team comprising of Officers from technical and financial side in close association,so that no room is left for any lacunae or loopholes or any ambiguity.

8) Processing of Drawings recieved from the suppliers for various equipment. Sorting out discrepancies found in drawings, taking up of all issues relating to drawings with the manufacturer so as to suit the requirment of the department. Across the table discussions with the authorised engineer/s of the firm to speed up the process of approval to drawings,if needed .

9) Processing of Bank-Gurantee & agreement documents recieved from the various firms for securty-cum-performance. Verification of Bank-Gurantees from respective Bankers.

10) Monitoring of delivery schedule in terms of the delivery clause of purchase order, coordinating with CPRI, the third party inspaction agency, for speedy inspection of material/equipment. Ascertaining the status of dispatch of material from thr firm. Confirmation of delivery from consignees.

11) Secrutiny of CPRI test reports. Monitoring of the performance of the equipments installed,Verification of performance report received from the consignee leading to releasing of performance related component of BG.

Thus whole process of procurment action is monitored till the hole process reaches its logical end. In short the wing acts as a facilitator between user wings and suppliers by way of tendering and processing of bids.

This wing is also involved in scrutiny of various developmental schemes and projects for approval of Techno-Economic-Committee.

This wing is also responsible for scrutinizing cost data on yearly basis, framed by Executive wings of Deptt. viz. EM&RE wings and S&O wings.

This wing follows B.I.S, I.E.C, C.B.I.P, C.E.A standards and specifications, ensuring thereby procurement of world class quality equipment/ material at optimum cost and time. This wing also acts as technical consultants to other wings of PDD where ever difficulty in technical matters including designs is experienced by them

## **Procurement and Material Management**

### **PROFILE**

Procurement of line material and equipment for the Sub-transmission level and below.

Maintaining inventory of material for M&RE wings in its stores

## **Training, testing, Inspection & Commissioning Wing**

### **PROFILE**

Technical Inspection of all new electric installations before their commissioning

Arranging Training for the staff

Setting Standards for Electric Contractors and issuing licenses after gauging their abilities

Technical Investigation of all electric accidents

Electrical testing and commissioning of all electric installations