

14. POWER DEVELOPMENT DEPARTMENT (PROJECTS38-42)

Projects of Ministry of Power

Financial Details:

Rs. in crore

S. No.	Sector	Item	Approved allocation	Sanctioned cost by Gol
1	Generation	Pakal Dul Project (1000 MW) – J&K State, State Equity towards Pakal Dul and other HEPs	4153.00	1192.00
2	Transmission & Distribution	PMRP (2004) T&D cost escalation	195.00	194.56
3	Transmission	Intra State Transmission System	3790.00	834.85
4	Distribution	Strengthening projects for Urban areas		1114.55
		Strengthening projects for Rural areas		1072.17
5	Advanced Technology Interventions	Smart metering projects for 2 lakh consumers	105.00	126.54
		Smart Grid projects		141.26
		Total	105.00	4675.93

Physical Status:

Type of Work	No. of project	DPR Prepared/ Approved	Tenders floated	Tenders under finalization	Tenders Allotted	Completed	In progress
Generation	1	1	1	0	1	0	1
T&D (PMRP)	73	73	73	0	73	60	13
Transmission	30	30	30	0	30	14	16
Distribution	188	188	187	1	187	131	56
Adv. Tech. intervention	3	1	0	0	0	0	1
Total	295	293	291	1	291	205	87

Projects of Ministry of New & Renewable Energy

Financial Details:

Rs. in crore

S. No.	Sector	Item	Approved allocation	Sanctioned cost by Gol
1	Generation	Small Hydro Projects (2-25 MWs)	2000.00	27.71

Physical Status:

Type of Work	No. of project	DPR Prepared/ Approved	Tenders floated	Tenders under finalization	Tenders Allotted	Completed	In progress
Generation: 2-10 MWs	7	3	0	4	0	0	0
10-25 MWs	14	14	1	5	1	0	1
Total	21	17	1	9	1	0	1

Project No. 38

Project Name: Small Hydro – Preparation of DPRs and Implementation/ Installation of SHP projects

Implementing Agency: 1. M/o New and Renewable Energy, GoI
2. PDD - JKPDCL

Likely Date of Completion: 2025

Financial Details: *Rs. in crore*

PMDP Cost	Sanctioned Cost	Funds Released	Funds Utilized
2000.00	27.71	3.86	1.94

Year-wise Utilization of Funds: *Rs. in crore*

Year	Funds released			Funds utilized		
	C.S.	S.S.	Total	C.S.	S.S.	Total
2016-17	0.00	0.00	0.00	0.00	0.00	0.00
2017-18	3.86	0.00	3.86	1.94	0.00	1.94
2018-19	0.00	0.00	0.00	0.00	0.00	0.00
2019-20	0.00	0.00	0.00	0.00	0.00	0.00
2020-21	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.86	0.00	3.86	1.94	0.00	1.94

Agency-wise Utilization of Funds: *Rs. in crore*

Component	PMDP Allocation	Funds released			Funds utilized		
		C.S.	S.S.	Total	C.S.	S.S.	Total
JAKEDA Projects	--	3.86	0.00	3.86	1.94	0.00	1.94
JKPDCL Projects	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	2000.00	3.86	0.00	3.86	1.94	0.00	1.94

Note: *Under the erstwhile SHP scheme of MNRE (not under PMDP), Rs. 3.86 Cr were released to JAKEDA and Rs. 5.20 Cr to JKSPDC.

Background:

- JKPDCL had identified 20 SHPs (10-25 MW) across the erstwhile state of J&K for implementation under PMDP. Post reorganisation of J&K, 10 of these SHPs are now located in the UT of J&K and 10 in the UT of Ladakh. Further, in view of the downward revision in mandate of JKEDA from 10 MW to 2 MW, 13 SHPs (2-10 MW) which were conceived and proposed for implementation under PMDP by JKEDA, now stand transferred to JKPDCL.
- Subsequently, vide G.O. 30-ST of 2021 dated 01-11-2021, the mandate of JAKEDA was restored and the 13 projects were handed back to JKPDCL. The DPRs and files pertaining to these Projects have been handed over to JAKEDA.

Physical Status:

- Central financial assistance (CFA) of Rs. 2000 Cr. under PMDP was announced in 2015 for “Small Hydro-Preparation of detailed project reports (DPRs) and implementation/ installation of Small Hydro Projects (SHPs)” in J&K.
- JKPDC has not received formal sanction / release of any funds from GoI under PMDP for any of the SHPs proposed under the scheme till date despite repeated requests in the regard over the last four years to GoI by both GoJK & JKPDC.
- 23 Projects taken up under the PMDP scheme, out of which DPRs have been prepared for 19 SHPs. Work for one project (12 MW Karnah) has been awarded. JKPDC is constrained to utilise its own resources to fund the scheme in the absence of any financial assistance from under PMDP from MNRE.
- Due to unfavourable financing scheme of the MNRE for small HEPs, the JKPDC/JKSPDC has communicated its inability to MNRE in implementing these projects without availability of liberal central financial assistance against the project cost. MNRE has taken up the issue with the Secretary, MHA vide D.O. letter no.284/11/2017-SHP dated 08.04.2019.
- Matter has been taken up with MNRE vide communications dated: 22.06.2020, 16.12.2020 and 04.06.2021.
- As on date 10 Small Hydro Projects (above 10 MW to 25 MW) are with JKPDC in the UT of J&K under PMDP-2015. Out of these:
 - ✓ One project (12 MW Karnah) has been awarded,
 - ✓ Bids for two projects (23 MW Ans-II and 14.1 MW Phagla) have been received and the Projects are under evaluation for issue of final award ,
 - ✓ One project (10.5 MW Mohra) has been bid out in May- 2021 and two bids have been received.
- The details of the projects conceived under the PMDP are as under:

A. SHPs between 2-10 MWs:

- 7 SHP projects aggregating 53.5 MW have been identified with cost per MW as Rs 11.51 crore. Total DPR cost of these 07 projects amounts to Rs 613.14 crore. The status of each project is as under:

S. No.	Name of the Project	District	Installed Capacity (MWs)	DPR Cost (in Rs crore)	Cost/MW (in Rs crore)	Present Status
1	Mawar 1	Kupwara	4.50	59.98	13.32	DPR prepared.
2	Sewa I	Kathua	9.50	129.76	13.65	
3	Hanswar	Kishtwar	8.00	76.90	9.61	
4	Romshi Nehama	Kulgam	9.00	99.00	11.00	Survey Investigation for these 3 SHPs have been completed and balance work of DPR to be
5	Achoora Gurez	Bandipora	9.50	104.50	11.00	
6	Gulabgarh	Reasi	6.00	66.00	11.00	

7	Apan Nallah	Kishtwar	7.00	77.00	11.00	undertaken. Survey Investigation works for this SHP have been completed, flow data procurement & analysis and balance work of DPR to be undertaken.
Total			53.5	423.4	11.51/ MW	

B. SHPs between 10-25 MWs:

- JKPDCL has prepared DPRs of following 14 small HEPs with installed capacity of 201.4 MW ranging from 10 to 25 MWs. The status of each project is as under:

S. No.	Name of the Project	District	Installed Capacity (MWs)	DPR Cost (in Rs crore)	Cost/MW (in Rs crore)	Present Status
1	Karnah	Kupwara	12	126.65	10.55	Project awarded on EPC (Engineering Procurement and Construction) basis in September, 2019. Work going on.
2	Phagla	Poonch	14.1	172.15	12.20	Techno-Economic Clearance has been accorded to the DPR and the tender is at financial bid opening stage. There is some issue with land acquisition which is being addressed with assistance of Deputy Commissioner Poonch.
3	ANS-II	Reasi	23	356.87	15.51	Project is at the stage of allotment.
4	MatchilKalaroos-I	Kupwara	25	308.24	12.32	TEC has been accorded to the DPR. No bids were received in the earlier tendering process. Project to be retendered.
5	Mohra	Baramulla	10.5	93.00	08.85	Tender has been floated in May 2021. Two bids received. Bid evaluation underway.
6	Dessa	Doda	21	290.25	13.82	TEC has been accorded to the DPR. Land acquisition process going on. Letter has been written to Revenue authorities to demarcate the land and expedite acquisition of land. Tender documents are under preparation.

7	Kulan-Ramwari	Ganderba I	25	278.76	11.15	TEC has been accorded to the DPR. Tender documents are under preparation.
8	Kalaroos Stage-II	Kupwara	10.5	191.27	18.21	TEC has been accorded to the DPR. Project is being retendered.
9	Kahmil	Kupwara	10	117.39	11.73	DPR has been prepared for all the six projects.
10	Mawar 2	Kupwara	10	65.81	06.58	
11	Dringla Karnah	Kupwara	10	103.76	10.37	
12	Gagrain	Poonch	10	132.85	13.28	
13	BhutNallah	Kishtwar	10	116.89	11.68	
14	Shranj	Baramulla	10	86.21	08.62	
	Total		201.1	2440.10	11.77	

C. Projects under Multipurpose mode:

- 02 Multipurpose projects aggregating 34.50 MW have been identified with cost per MW as Rs 24.57 crore. Total DPR cost of these 02 projects amounts to Rs 884.65 crore. The detail of each project is as under:

S. No	Name of project	District	Installed Capacity in MWs	Estimated DPR cost (Rs. in crore)	Cost/ MW
	Multipurpose projects:				
10	Ratan-Nag HEP	Kishtwar	10.5	229.39	21.84
9	Bonner-Lolab HEP	Kupwara	24.0	655.25	27.30
	Total		34.5	884.64884.64	49.14

- The estimated capacity of SHPs in UT of J&K would be 175.6 MW and would require at least amount of Rs 2701.83 Crores as per the DPR. The per-MW average cost comes to Rs. 15.39 Crore. As is evident, it would be extremely difficult to develop any of these projects without central funding in view of high project cost and hence unviable tariff.

Bottlenecks/ issues/ action required:

- The GoJK/JKPDC has time and again over the past four years requested the MNRE, GoI for sanction of:
 - Central Financial Assistance to the tune of 60% of the completion cost for each of the H.E. projects under PMDP-2015, and
 - Central Financial Assistance to the tune of 100% of the cost incurred by JKSPDC towards preparation of DPR for each of the H.E. projects under PMDP-2015.
- As per the minutes of the Meeting held on 19th January, 2018, under the chairmanship of the Secretary, Ministry of New & Renewable Energy, it was conveyed that financial support to SHP projects shall be provided as per the guidelines of SHP scheme of MNRE in supersession to the support agreed earlier (in the meeting held under the chairmanship of

Joint Secretary, MNRE on 6th April, 2017) wherein it was decided that 30% project cost shall be provided to JKSPDC as MNRE grant under PMDP.

- As the assurance given earlier by MNRE for grant of 30% funds for each of the SHPs being implemented by JKSPDC has been withdrawn, JKSPDC, being a commercial corporation, conveyed its inability to develop any of these Projects in view of high project cost and consequently higher tariff in the absence of generous financial assistance from the Union Government.
- JKSPDC has conveyed its position to the MNRE that PMDP-2015 is a special package announced by Hon'ble Prime Minister during the year 2015 for development of the J&K State with 100% CFA. The essence of the scheme is that GoJK shall get liberal CFA from the GoI for setting up of these projects which shall cater to a huge population in remote areas of J&K. Therefore, the scheme should not be seen through the prism of normal MNRE scheme. Government of Jammu & Kashmir would not be in a position to execute these projects in case MNRE provides CFA as per the normal SHP scheme of MNRE, since Government of Jammu & Kashmir is not in a position to bear the balance cost. The capping and / or application of restrictions on the CFA for projects proposed under PMDP-2015 is not in line with the expectations of GoJK, and defeats the purpose that the special scheme intends.
- In this context, GoJK vide letters dated 27-Dec-2018 requested the GoI for sanction (i) 100% Central Financial Assistance to JKSPDC for preparation of the DPRs and (ii) 70% Central Financial Assistance to JKSPDC for setting up of the projects that shall be implemented under PMDP-2015 by JKSPDC.
- However, the request of JKSPDC was not acceded to by the MNRE, as conveyed vide letter No: 284/11/2017-SHP, dated 07-01-2019 wherein it was communicated that the Financial Assistance under PMDP-2015 for J&K shall be from the existing schemes (which too has since expired and not been renewed). Pertinently, JKSPDC has already incurred substantial expenditure on the preparation of DPRs, pre-construction works & EPC works for the SHPs under PMDP-2015 out of its own limited funds.
- MNRE, vide No: 322/12/2017-NSM, dated 30-Jan-2019, has sanctioned a scheme for setting up of 14 MW Solar PV plant in Ladakh under PMDP-2015, where under Financial Assistance in the shape of Viability Gap Funding to the tune of Rs. 13 Cr per MW (excluding Rs. 5 Cr for PMC) has been provided to the Plant.
- Subsequently, the Govt of J&K/ JKSPDC, vide letter dated JKSPDC/PMDP-2015/5747-56, dated 12-Mar-2019, and JKSPDC/PMDP-2015/11704-13, dated 31-Jul-2019, requested for sanction of Central Financial Assistance to SHPs being implemented by JKSPDC under PMDP-2015 on the analogy of the aforesaid Solar PV Plant, so as to bring down the tariff of SHPs to viable range. MNRE, GoI, vide letter dated 16-12-2019 has conveyed that the financial assistance for these projects shall be considered under the revised SHP subsidy scheme which is being formulated by the Ministry.
- The JKSPDC has conveyed to the GoJK that in absence of sanction of financial assistance by the MNRE, GoI for implementation of the PMDP projects, it shall not be in a position to implement these projects.
- A review meeting of the Power Sector of J&K was held in Jammu on 26-02-2020 under the chairmanship of the Hon'ble Union Minister for Power (I/C), wherein it was conveyed that

the Union Government shall provide 60% of the project cost for Small Hydro Projects under PMDP-2015 as grant.

- In this backdrop, the Principal Secretary, PDD, GoJK, vide letter dated 22-06-2020 once again requested the Secretary, MNRE, GoI, for accord of sanction to Central Financial Assistance to the tune of 60% for each of the hydroelectric projects being implemented by JKPDC under PMDP-2015, in order to enable JKSPDC to take the program to its logical conclusion. The request was again made to the Secretary, MNRE, vide Managing Director, JKPDC letter dated 16-Dec-2020. No response was received from the GoI in the matter.
- The matter came up for discussion during the recent visit of the Hon'ble Union Minister of State for Power (I/C) to Jammu on 03-Jan-2021, to preside over the function of signing of MoUs between JKSPDC & NHPC, wherein the Hon'ble Minister reiterated that all necessary assistance for development of Small Hydro Projects would be provided.
- The matter was also reviewed by the Principal Secretary to the Hon'ble Prime Minister, while taking review of PMDP-2015, and the lack of progress on account of non-availability of funds was noted.
- The Ministry of New & Renewable Energy, vide JKSPDC letter dated 04-June-2021, was once again requested for sanction of financial assistance to the tune of 60% of the Project cost for each of the Small Hydro Projects under PMDP-2015.
- Pertinently, the Small Hydro Projects under PMDP-2015 have been conceived and taken up for implementation by JKPDC with the understanding that there shall be a substantial financial grant for each Project from the Central Government, given that it is a Centrally Sponsored Scheme with an assured commitment of Rs. 2000 Crore for SHP sector. The financial viability of the Projects has been arrived at based on the provision of liberal funding by the GoI.
- JKPDC has already initiated action of tendering and other formalities for a number of Projects – EPC Contract for 12 MW Karnah has already been awarded and three other Projects are ready for allotment. However, in the absence of clarity on the financing pattern, all further action is held up.
- In light of the aforementioned facts, the sanction of funds by the GoI and their subsequent release is an utmost priority.

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Project No:	39
Project Name:	PakalDul project subject to environmental clearance (4x250 = 1000 MW) – J&K Share

Implementing Agency: Chenab Valley Power Projects Pvt. Ltd. (CVPPPL)

Likely Date of Completion: July 2025

Financial Details:

Rs. in crore

PMDP Cost	Sanctioned Cost	Funds Released	Funds Utilized
4153.00	1192.00	1192.00	1003.00

Year-wise Utilization of Funds:

Rs. in crore

Year	Funds released			Funds utilized		
	C.S.	S.S.	Total	C.S.	S.S.	Total
2017-18	400.00	0.00	400.00	463.38	0.00	463.38
2018-19	100.00	0.00	100.00	85.06	0.00	85.06
2019-20	283.00	0.00	283.00	120.34	0.00	120.34
2020-21	243.58	0.00	243.58	155.12	0.00	155.12
2021-22	165.42	0.00	165.42	179.10	0.00	179.10
Total	1192	0.00	1192	1003	0.00	1003

Project Details:

- Pakal Dul HE Project has been approved by CEA for an amount of Rs 8112.12 crore at March 2013 Price Level with a debt equity ratio of 70:30 and subordinate debt of 2500 crore from GoI. Equity Contribution of J&K (i.e., JKPDD) Rs 1192.00 crore is being funded by GoI through PMDP route.
- It has an installed capacity of 1000 MW and is being constructed on river Marusudar, a tributary of Chenab in district Kishtwar. The project envisages construction of a 167 -in high concrete face rockfill dam, an underground Powerhouse with 4 units of 250 MW each.
- Funding pattern of the project is as under:

i)	Equity to be met by Joint Venture Partners (49% NHPC, 49% JKPDD and 2% PTC)	2433.64 crore
ii)	Subordinate Debt from GoI	2500 crore
iii)	Commercial Loan to be raised by M/s. CVPPPL	3178.48 crore
	Total	8112.12 crore

- Hon'ble Prime Minister laid the foundation stone of the project on 19th May 2018.

Status of Clearances/ Appraisals:

- All the statutory clearances for the project viz. Appraisal by CEA, Environmental Clearance by MoEF and Forest Clearance by GoJK have already been obtained.
- GoI has also accorded investment approval of the project vide letter dated 28.10.2014 at a cost of Rs 8112.12 crore at March 2013 price level, taking into consideration:

- Subordinate debt of Rs2500 crore from Govt. of India.
 - Exemption from WCT/entry tax by Govt. of J&K.
 - Waiver of 12% free power for 1st ten years from the completion of the project by Govt. of J&K.
 - Water usage charges for 1st ten years from the completion of the project by Govt. of J&K.
- Equity contribution to be infused by JKSPDC would be in the form of grant to CVPPPL by GoI, to be released in a phased manner as per the approval conveyed by MOP, GoI vide letter dated 19.10.2016.

Status of Land Acquisition:

Land Required	Quantity	Status
Forest land (Right Bank)	146.66	<ul style="list-style-type: none"> ▪ Forest Clearance has been accorded. ▪ Rs 17.81 Crore has been deposited with Forest department. ▪ NOC to start site activities obtained from State Forest Corporation on 30.03.2017. ▪ The forest land handed over to CVPPPL on 14.03.2018.
KHANP Land + Forest Land (Left Bank)	208.085 (188.76 + 19.325)	<ul style="list-style-type: none"> ▪ Forest Clearance has been accorded. ▪ The KHANP Land (188.76 Ha) handed over to CVPPPL on 14.03.2018. ▪ Rs421.27 Crore has been deposited with Forest department.
Private/Revenue Land	177.8175	<ul style="list-style-type: none"> ▪ Approval has been accorded by GoJK for acquisition of land at Powerhouse and Dam Site of the project ▪ Amount deposited by CVPPPL: Rs99.84 Crores. ▪ Amount disbursed to PAFs till date: Rs89.70 Crore.

- Final award for acquisition of Powerhouse area land and Reservoir area land has already been issued. Following are the details of land acquisition in district Kishtwar:

No. of villages	Total area involved	Land handed over	Land yet to be handed over	Compensation		
				total	received	disbursed
6	3556K 07M	3556K 07M	Nil	115.84 Cr	115.84 Cr	91.57 Cr

- NOC to start the site activities of the project has also been obtained from J&K State Forest Corporation vide letter dated 30.03.2017.
- Diverted forest land handed over by Forest Department, GoJK on 14.03.2018.

Status of Implementation of R&R Plan:

- GoJK has approved the rehabilitation and resettlement plan vide its order dated 22.02.2017. Enhancement of compensation in line with approved R&R plan of Kishanganga HEP has been approved by GoJK vide Order dated 07.03.2019.
- Total number of affected families is 766 and number of displaced families is 110.
- Funds amounting to Rs 54.09 crore have already been released to the Collector and payment to the tune of Rs 50.66 crore made to the PAFs. Further disbursement of compensation is in progress.

Physical Status:

- **Physical progress (overall) 23.34 %.**
- The present status of the various packages of the project is as follows:

Rs. in crore

Packages	Tender	Awarded cost	Status
Power House Package	Awarded	1051.00	<ul style="list-style-type: none"> • Letter of Acceptance issued to M/s Afcon-JP Associates JV on 21.02.2018. Construction work at the site is in progress. • Physical Progress (32.5%)
Dam Package	Awarded	2853.01	<ul style="list-style-type: none"> • Letter of Acceptance issued to M/s JP Associates Ltd on 21.06.2018. Construction work at the site is in progress. • Physical Progress: 22.5%
HRT-TBM Package	Awarded	2575.63	<ul style="list-style-type: none"> • LoA issued to M/s L&T Ltd on 03.07.2020. • Process regarding survey, development of platform and associated infra works is in progress. Detailed engineering of TBM and segment design in progress. • 50% D&E works completed. • Physical progress: 3.3%
Hydro Mechanical Package	Awarded	286.58	<ul style="list-style-type: none"> • Letter of Award issued to M/s PES Engineers Pvt Ltd on 26.08.2019. • Contract agreement signed between CVPPPL and M/s PES on 21.10.2019. • Detailed design of HM components/ manufacturing in progress. • 60% D&E works completed. • Physical progress: 6.7%
Electro Mechanical Package	Awarded	689.76	<ul style="list-style-type: none"> • Letter of Acceptance issued to M/s Voith Hydro Ltd on 02.01.2019. • Detailed engineering of E&M equipment including checking/ submission of drawings, layout plan and procedure for model testing of turbine are in progress. • 75% D&E works completed. • Physical progress: 9%

- All five packages have been awarded for an amount of Rs 7456 crore.

Financial Status of the Project:

- GoI has released Rs 1192 crore towards Equity Contribution of J&K (i.e., JKPPDD).
- NHPC has also released Rs 1241.15 crore under its equity part for the HEP.
- Expenditure of Rs 2026.74 crore incurred on the project up to ending Nov' 2021 (cash basis).

Bottlenecks/ issues/ action required, if any:

1. Signing of power purchase agreement.
 - Confirmation from GoJK regarding purchase of balance power from the project after exercising the first right of refusal as per provisions of Promoters Agreement is awaited besides PPA of the project. The matter is being pursued with JKPDD, GoJK.

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Project No:	40
Project Name	Price escalation under PMRP-2004 project on Transmission and Distribution network.

Implementing Agency: Power Development Department/ PGCIL

Likely Date of Completion: **March 2022**
(Substantially completed)

Financial Details:*Rs. in crore*

PMDP Cost	Sanctioned Cost	Funds Released	Funds Utilized
195.00	194.56	133.48	82.87

Year-wise Utilization of Funds:*Rs. in crore*

Year	Funds released			Funds utilized		
	C.S.	S.S.	Total	C.S.	S.S.	Total
2017-18	130.00	0.00	130.00	13.90	0.00	13.90
2018-19	0.00	0.00	0.00	51.95	0.00	51.95
2019-20	0.00	0.00	0.00	9.84	0.00	9.84
2020-21	0.00	0.00	0.00	7.18	0.00	7.18
2021-22	3.48	0.00	3.48	0.00	0.00	0.00
Total	133.48	0.00	133.48	82.87	0.00	82.87

Project Targets:

- Completion of 73 projects funded under PMRP 2004, which suffered cost escalation and could not be completed for want of additional funds.
- Under PMDP, only the cost escalation component to the tune of Rs195.00 crore of these projects is being funded.

Physical Status:

- Out of 73 awarded projects, 60 projects stand physically completed and 05 projects nearing completion.

- 04 projects pertain to OPGW network which is being executed by CPSU-PGCIL. Out of total 76 OPGW links, 10 links (Jammu: 04, Kashmir: 06) have been handed over to PDD. PGCIL to expedite the project for timely completion;
- 04 Projects are under arbitration; efforts being made for conciliation and revival. However, as per the instructions conveyed by the Hon'ble Union Minister of Power during a review meeting held in Srinagar on 14 October, 2021, the project is being handed over to PGCIL, who will ensure completion of all pending works by December 31, 2022.
- The ongoing works shall be completed during current financial year.

Rs. in crore

S. No.	Executing Agency	Project cost	No. of works	Funds released *	Works completed	Expenditure incurred
1	CE (S&O), Kashmir: <ul style="list-style-type: none"> • Transmission lines • Substations 	126.56	14 14	70.00	9 14	64.60
2	CE (S&O), Jammu: <ul style="list-style-type: none"> • Transmission lines • Substations 	50.81	24 17	30.00	20 17	18.27
3	PGCIL: Communication/ PLCC converted in OPG <ul style="list-style-type: none"> • Kashmir region • Jammu region 	17.19	2 2	0.00	0 0	0.00
	TOTAL	194.56	73	100.00*	60	0

* Rs 30.00 crore not released by the Administrative Department to the executing agencies.

Bottlenecks/ issues/ action required, if any:

- Four of the pending projects are under arbitration. A delay in resolution is hindering the completion of these projects.
- Four pending projects pertain to OPGW network which is being executed by PGCIL. They have been requested to expedite and furnish a time bound action plan for execution and commissioning.

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Project No:	41
Project Name:	Distribution: Special Assistance for augmentation of infrastructure for distribution systems including capital cities, tourist destinations (excludes normal entitlement of J&K State for DDUGJY and IPDS)

Implementing Agency: 1. Ministry of Power, GoI
2. Power Development Department, GoJK

Executing Agencies: Urban areas (JKPDD, REC-PDCL)
Rural areas (JKPDD & PGCIL)
Intra-state Transmission System (JKPDD, PGCIL, REC-TPCL)

Likely Date of Completion: December 2022

Rs. in crore

PMDP Cost	Sanctioned Cost	Funds Released	Funds Utilized
3790.00	2757.67	1829.52	1528.30

Financial Details: (CS:US = 90:10)

Year-wise Utilization of Funds:

Rs. in crore

Year	Funds released			Funds utilized		
	C.S.	S.S.	Total	C.S.	S.S.	Total
2016-17	0.00	15.00	15.00	0.00	7.65	7.65
2017-18	577.91	100.00	677.91	0.00	77.96	77.96
2018-19	296.06	16.66	312.72	173.47	12.24	185.71
2019-20	267.55	34.04	301.59	320.16	34.04	354.20
2020-21	363.03	81.54	444.57	623.87	66.72	690.59
2021-22	0.00	77.73	77.73	208.35	3.84	212.19
Total	1504.55	324.97	1829.52	1325.85	202.45	1528.30

Component-wise Details:

Rs. in crore

Component	Project Cost	Sanctioned Cost	Funds released			Funds utilized		
			C.S.	S.S.	Total	C.S.	S.S.	Total
Distribution Strengthening Projects (Urban)	1114.55	1053.12	490.69	102.53	593.22	545.61	97.17	642.78
Distribution Strengthening Projects (Rural)	1072.17	949.29	559.20	134.17	693.37	406.11	100.24	506.35

Intra-State Transmission System	834.85	755.26	454.66	88.27	542.93	374.13	5.04	379.17
TOTAL	3021.57	2757.67	1504.55	324.97	1829.52	1325.85	202.45	1528.30

Project Targets:

- Augmentation of infrastructure for distribution systems, including in capital cities and tourist destinations.
- Special focus on improving distribution systems.

Physical Progress:

The project has following three parts:

- | | |
|--|-----------------|
| 1. Distribution Strengthening Projects (Urban) | [03 components] |
| 2. Distribution Strengthening Projects (Rural) | [05 components] |
| 3. Intra-State Transmission System | [01 component] |

Physical progress achieved under different components of the project is as under:

A. Distribution Strengthening Projects (Urban):

Component	Agency	No. of Projects	Name of Circles	Present status
1. Distribution Strengthening Projects.	JKPDD	7 Circles	Batote, Kishtwar, Kathua, Rajouri, Bijbehara, Pulwama & Budgam	Work in progress in all packages.65% a physical achievement.
	REC-PDCL	4 Circles	Jammu, Srinagar, Ganderbal& Sopore	Work in progress in all packages.58% a physical achievement.
2. Underground cabling at tourist places.	JKPDD	2 Tourist Places	Pahalgam& Gulmarg	Works completed.
3. Meter testing labs (33 No.).	JKPDD	1Package	Batote, Rajouri, Kathua, Pulwama, Sopore and Bijbehara.	Tender floated and later on had been cancelled on 20.02.2019. DPR has been revised and submitted to CEA on April 12, 2021 & further submitted to MoP for approval for 6 No. Labs on June 28, 2021.

B. Distribution Strengthening Projects (Rural):

Component	Agency	No. of Projects	Name of districts	Present status
1. Distribution Strengthening Projects.	JKPDD	13 districts	Jammu, Rajouri, Kathua, Samba, Poonch, Kishtwar, Doda, Anantnag, Ganderbal, Baramulla, Budgam, Kupwara, Bandipora	Work is in progress. Overall progress 30-61.76%
	PGCIL	6 districts	Ramban, Udhampore, Reasi, Kulgam, Shopian, Pulwama	Work is in progress. Overall progress 96.28%
2. Replacement of barbed wire/ worn-out poles.	JKPDD	83 Projects		Works completed.
3. Underground cabling at tourist places.	JKPDD	2 Tourist Places	Patnitop and Sonamarg	Works completed.
4. Const. of 33/11 KV S/S at Industrial areas.	JKPDD	20 Projects		14 works completed 06 in progress.
5. Electrical Infrastructure at Shrines.	JKPDD	22 Shrines		17 works completed 5 in progress.

C. Intra-State Transmission System:

In order to cater to a projected peak demand of 3095MW at the end of plan period 2017-22 and for evacuation of power from upcoming generation projects proposed to be commissioned during this plan period, the existing transmission infrastructure was to be upgraded by way of adding adequate transformation capacities at 220kV and 132 kV levels and constructing new EHV transmission lines and associated substations. Accordingly, a transmission plan was prepared phasing the transmission works over a period starting from 2016-17 to 2021-22. The perspective transmission plan 2016-17 to 2021-22 has been integrated with the distribution plan up to 33 kV.

Component-wise status of execution of the works is as under:

Component	Agency	No. of Projects	Name of Regions	Present status
Intra-State Transmission.	JKPDD	22	Jammu (9) Kashmir (13)	22 works awarded (11 completed, 11 in progress).
	PGCIL	6	Jammu (3) Kashmir (3)	All 6 packages awarded. (02 completed, 04 in progress).
	REC-TPCL	2	Jammu (1) Kashmir (1)	2 packages awarded. (1 completed, 1 in progress).

- Out of 188 sub-projects, 187 have been awarded. 131 works completed and 56 are in progress. 1 works is at different stages of tendering. Details are as under:

Component	Total works	Works completed	Awarded, work in progress	Under tendering
Distribution strengthening (Urban)	12	1	10	1
Distribution strengthening (Rural)	146	116	30	0
Sub Total	158	117	40	1
Intra-state Transmission	30	14	16	0
Total	188	131	56	1

Bottlenecks/ issues/ action required, if any:

1. Pace of execution of distribution projects is slow.

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Project No:	42
Project Name:	Distribution: Advance technology interventions: Smart grids and smart meters

Implementing Agency: 1. PGCIL for Smart grids
2. REC-PDCL for Smart meters

Likely Date of Completion: June 2022

Financial Status: (CS:SS = 90:10) *Rs. in crore*

PMDP Cost	Sanctioned Cost	Funds Released	Funds Utilized
105.00	267.80	35.94	21.26

Year-wise Utilization of Funds: *Rs. in crore*

Year	Funds released			Funds utilized		
	C.S.	S.S.	Total	C.S.	S.S.	Total
2017-18	0.00	0.00	0.00	0.00	0.00	0.00
2018-19	0.00	0.00	0.00	0.00	0.00	0.00
2019-20	0.00	1.98	1.98	0.00	1.98	1.98
2020-21	33.96	0.00	33.96	12.68	0.00	12.68
2021-22	0.00	0.00	0.00	6.60	0.00	6.60
Total	33.96	1.98	35.94	19.28	1.98	21.26

Agency-wise Details of Utilization of Funds: *Rs. in crore*

Agency	Sanctioned Cost	Funds Releases	Funds Utilized
PGCIL – Smart Grids	141.26	0.00	0.00
REC-PDCL – Smart Metres	126.54	33.96	19.28
JKPDD	–	1.96	1.98
TOTAL	267.80	35.92	21.26

Project Targets:

- Smart Grid projects for 17 industrial areas and tourist spots.
- 2 lakh smart meters for Jammu and Srinagar cities and 9.25 lakh consumer meters, including prepaid meters, for other areas.

Physical Status:

- The State Administrative Council vide decision No.46/8/2018 dated 08.08.2018 has approved engagement as PIA on nomination basis of:
 - ✓ PGCIL for execution of smart grid projects, and
 - ✓ REC-PDCL for procurement & installation of electronic meters and 2 lakh smart meters, including O&M, meter reading and bill generation.
- Smart Grids:

- ✓ As per the approved scheme, the attributes of Smart Grid shall be as under:
 - a. Substation Automation System (SAS)
 - b. Smart Collection Mechanism
 - c. Advanced Metering Infrastructure (AMI)
 - d. Outage Management System (OMS) & Supervisory Control and Data Acquisition (SCADA) System
 - e. Peak Load Management (PLM)

- ✓ PGCIL as PIA floated tenders for the project in September 2018. Despite repeated tendering, several clarifications and amendments issued by PGCIL, the rates of the bid received were found unreasonable due to which PGCIL annulled the tender in 2019.
- ✓ The matter was reviewed in a meeting chaired by Secretary Power GoI on April 6, 2021. The Secretary Power directed PGCIL to finalise the revised scope of smart grid project in consultation with distribution corporations and submit the revised DPRs to the Ministry of Power.
- ✓ While preparing revised DPR, PGCIL will exclude the towns/areas which fall in the scope of works recently awarded SCADA/RTDAS projects of JKPDD to avoid overlapping.
- ✓ The PGCIL has collected the requisite information from the DISCOMS and is in process of revising the DPRs.

- Smart Metres:
 - ✓ Vide Government Order No. 181-PDD of 2018 dated 13-08-2018 RECPDCL, a subsidiary of Rural Electrification Corporation (REC) was engaged as Project Implementing Agency (PIA) for procurement and installation of 2 lakh smart meters including meter reading and O&M of meters.
 - ✓ So far RECPDCL has awarded 1.15 lakh smart meters out of 2 lakh smart meters sanctioned under PMDP to Turnkey Contractor (TKC), M/S Techno Electric Co. on 17-09-2019, to the extent of availability of funds. The number of meters got reduced due to cost escalation on account of inclusion of service cables and additional hardware.
 - ✓ A total of 15206 meters stands installed by 25 December 2021. RECPDCL has been instructed to ensure completion of project within the timelines.

Bottlenecks/ issues/ action required, if any:

- PGCIL has been very slow in moving ahead on the Smart Grid project despite numerous reminders and meetings. It needs to expedite project.

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