MINISTRY OF POWER

DEMAND NO. 74

Ministry of Power

(In ₹ crores)

		i			•		ı	•		ı	(In ₹ crores)				
		Actual 2017-2018			Budg	et 2018-20	019	Revised 2018-2019			Budg	020			
		Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total		
	Gross	13076.96	1940.95	15017.91	13434.97	2334.95	15769.92	16998.69	3063.50	20062.19	18774.62	3547.65	22322.27		
	Recoveries	-1042.91		-1042.91	-599.50	-123.50	-723.00	-3449.50	-987.50	-4437.00	-5481.65	-965.80	-6447.45		
	Receipts														
	Net	12034.05	1940.95	13975.00	12835.47	2211.45	15046.92	13549.19	2076.00	15625.19	13292.97	2581.85	15874.82		
A. The Budget allocations, net of recoveries, are given below:															
CENTRE'S EXPENDITURE															
Establishment Expenditure of the Centre															
1. Secretariat		38.54		38.54	43.15		43.15	45.40		45.40	48.39		48.39		
		-0.45		-0.45											
	Net	38.09		38.09	43.15		43.15	45.40		45.40	48.39		48.39		
2. Statutory Authorities															
2.01 Central Electricity Authority		112.83	0.83	113.66	117.14		117.14	118.22		118.22	122.15		122.15		
2.02 Setting up of Joint Electricity Regulatory		5.75		5.75	8.50		8.50	8.50		8.50	9.35		9.35		
Commission (JERC) for UTs and Goa 2.03 Appellate Tribunal for Electricity		17.00		17.00	15.75		15.75	15.75		15.75	17.14		17.14		
2.04 Central Electricity Regulatory Commission		42.15		42.15	55.50		55.50	55.50		55.50	66.50		66.50		
(CERC) Fund 2.05 Less- Amount met from CERC Fund		-42.15		-42.15	-55.50		-55.50	-55.50		-55.50	-66.50		-66.50		
2.00 Look / Williams (110) in OE100 i unu	Net	135.58	0.83	136.41	141.39		141.39	142.47		142.47	148.64		148.64		
Total-Establishment Expenditure of the Centre		173.67	0.83	174.50	184.54		184.54	187.87		187.87	197.03		197.03		
•															
Central Sector Schemes/Projects															
Conservation and Energy Efficiency															
3. Energy Conservation Schemes															
3.01 Energy Conservation		37.00		37.00	55.00		55.00	27.00		27.00	110.00		110.00		
Deen Dayal Upadhyaya Gram Jyoti Yojna															
4. Deen Dayal Upadhyaya Gram Jyoti Yojna		5049.97	•••	5049.97	3800.00	•••	3800.00	3800.00		3800.00	4066.00	•••	4066.00		
5. Sahaj Bijli Har Ghar Yojana (Rural)- Saubhagya		1463.95		1463.95	2750.00		2750.00	2750.00		2750.00					
Total-Deen Dayal Upadhyaya Gram Jyoti Yojna		6513.92	•••	6513.92	6550.00	•••	6550.00	6550.00		6550.00	4066.00	•••	4066.00		
Integrated Power Development Scheme															

		l	10047 00	10	l 5.			l <u>.</u> .	1 00 4 0 0	0.4.0	l 5.	-	₹ crores)
			al 2017-20		_	et 2018-20		Revised 2018-2019			Budget 2019-2020		
6. Integra	ted Power Development Scheme	Revenue	Capital	lotai	Revenue	Capital	lotai	Revenue	Capital	lotal	Revenue	Capital	Total
· ·	Transfer to Central Road and Infrastructure							2850.00	900.00	3750.00	4380.45	900.00	5280.45
6.02	Fund (CRIF) IPDS-Grant	2848.87		2848.87	3085.00		3085.00	2850.00		2850.00	4380.45		4380.45
6.03	IPDS-Loans		962.12	962.12		900.00	900.00		900.00	900.00		900.00	900.00
6.04	Sahaj Bijli Har Ghar Yojana (Urban)-	89.38		89.38	950.00		950.00	119.35		119.35			
6.05	Saubhagya Award Scheme Saubhagaya							100.46		100.46			
6.06	Less- Amount Met from Central Road and							-2850.00	-900.00	-3750.00	-4380.45	-900.00	-5280.45
0.00	Infrastructure Fund (CRIF)												
Strongthonin	N of Power Systems	et 2938.25	962.12	3900.37	4035.00	900.00	4935.00	3069.81	900.00	3969.81	4380.45	900.00	5280.45
	g of Power Systems												
7. Strengt	thening of Power Systems Smart Grids	3.07		3.07	5.50		5.50	4.42		4.42	5.50		5.50
7.02	Green Energy Corridors		•••		3.30	10.00	10.00	4.42	105.00	105.00	3.30	75.00	75.00
7.03	Interest Subsidy to National Electricity Fund	75.00		75.00	75.00		75.00	75.00		75.00	75.00		75.00
7.04	Financial support for Debt restructuring of		···		0.01		0.01						
	DISCOMS 220 kV Transmission line from Srinagar to												
	Leh via Kargil	***	500.00	500.00		500.00	500.00	***	500.00	500.00	•••	319.21	319.21
7.06	Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (Program Component)	95.00		95.00	95.00		95.00	582.50		582.50	313.50		313.50
7.07	Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (EAP Component)	187.50		187.50	187.50		187.50	700.00		700.00	256.50		256.50
	Strengthening of Transmission System in the States of Arunachal Pradesh and Sikkim	300.00		300.00	300.00		300.00	800.00		800.00	595.42		595.42
7.09	Actual recovery	-0.31		-0.31									
Dawar System	N Davidanment Fund	et 660.26	500.00	1160.26	663.01	510.00	1173.01	2161.92	605.00	2766.92	1245.92	394.21	1640.13
•	n Development Fund System Development Fund												
	Transfer to Power System Development	1000.00		1000.00	544.00		544.00	544.00		544.00	1034.70		1034.70
	Fund (PSDF)		•••			•••			***			•••	
	Scheme for Power System Development	772.41		772.41	544.00		544.00	544.00		544.00	582.08		582.08
8.03	Utilisation of Gas based Generation Capacity	227.59	•••	227.59	•••	•••	•••	•••	•••			•••	
8.04	Payment of interest for loan	1000.00			 544.00		 544.00	 544.00		 544.00	452.62		452.62
8.05	Less-Amount met from Power System Development Fund	-1000.00		-1000.00	-544.00		-544.00	-544.00		-544.00	-1034.70		-1034.70
	N			1000.00	544.00		544.00	544.00		544.00	1034.70		1034.70
Total-Central S	ector Schemes/Projects	11149.43	1462.12	12611.55	11847.01	1410.00	13257.01	12352.73	1505.00	13857.73	10837.07	1294.21	12131.28
Other Central S Autonomous Bodi	es												

			1			ı			Ī			ı		₹ crores,
			Actu	al 2017-20)18	Budg	get 2018-20	019	Revised 2018-2019			Budg)20	
	To a los los	ward Danasak	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Tota
9.		g and Research				450.00		4=0.00	0.101					
		Central Power Research Institute	50.36		50.36			150.00	94.34		94.34	200.00		200.00
		National Power Training Institute	57.20		57.20			100.55	100.55		100.55	69.00		69.00
		Fraining and Research	107.56		107.56	250.55		250.55	194.89		194.89	269.00		269.00
10.	Conser	vation and Energy Efficiency												
	10.01	Component)	27.00	•••	27.00	100.16		100.16	10.49		10.49	100.16		100.16
		Bureau of Energy Efficiency (EAP Component)		•••		3.21	•••	3.21	3.21	•••	3.21	3.21		3.21
		Conservation and Energy Efficiency	27.00		27.00	103.37		103.37	13.70		13.70			103.37
Total-Autonomous Bodies		134.56	•••	134.56	353.92	•••	353.92	208.59	•••	208.59	372.37		372.37	
Public Se		•												
11.		nce to CPSUs												
		National Hydro Electric Power Corporation Ltd		350.00	350.00		482.00	482.00		482.00	482.00		554.64	554.64
	11.02	Tehri Development Corporation (THDC)		32.00	32.00		52.00	52.00		28.00	28.00		49.00	49.00
	11.03	North Eastern Electric Power Corporation (NEEPCO)		96.00	96.00		267.45	267.45		61.00	61.00		684.00	684.00
	11.04	Central Assistance for Pakul Dul HEP under J and K PMDP 2015 as grant to Chenab Valley Power Projects Private Limited (CVPPPL)	200.00		200.00	100.00		100.00	100.00		100.00	351.78		351.78
	11.05	Gol fully serviced bond issue expenditure and interest (PFC bonds)	376.39		376.39	350.00		350.00	376.40		376.40	376.40		376.40
	11.06	Gol fully serviced bond issue expenditure and interest (REC Bonds)							323.60		323.60	1158.31		1158.31
	11.07	Reimbursement of Claim for any expenditure already incurred by NTPC on Lohari Nagpala										0.01		0.01
	Total- 4	Hydro Power Assistance to CPSUs	576.39	478.00	1054.39	450.00	801.45	1251.45	800.00	571.00	1371.00	1886.50	1287.64	3174.14
10			370.39	470.00	1004.09	450.00	001.40	1201.40	800.00	37 1.00	137 1.00	7000.50	1207.04	3174.14
12.		tion of Coal bearing areas for NTPC					100 50	100.50		07.50	07.50		6E 00	65.00
		Acquisition of coal bearing areas					123.50	123.50		87.50	87.50		65.80	65.80
	12.02	Less Recoveries					-123.50	-123.50		-87.50	-87.50		-65.80	-65.80
			Net											
	I-Public 8	Sector Undertakings	576.39	478.00	1054.39	450.00	801.45	1251.45	800.00	571.00	1371.00	1886.50	1287.64	3174.14
Others			J											
		Recoveries												
Total-Other Central Sector Expenditure Grand Total		710.95 12034.05	478.00 1940.95	1188.95 13975.00		801.45 2211.45	1605.37 15046.92		571.00 2076.00	1579.59 15625.19		1287.64 2581.85	3546.51 15874.82	
	otal													

											(In	₹ crores)
	Actual 2017-2018			Вι	ıdget 2018-2	019	Revi	sed 2018-2	2019	Budget 2019-2020		
	Revenue	Capital	Total	Revenue	e Capital	Total	Revenue	Capital	Tota	Revenue	Capital	Total
Economic Services												
1. Power	11995.96		11995.96	11452.3	2	11452.32	10763.79		10763.79	11671.66		11671.66
2. Secretariat-Economic Services	38.09		38.09	43.1	5	43.15	45.40		45.40	48.39		48.39
Capital Outlay on Power Projects		628.83	628.83		562.00	562.00		633.00	633.00		443.21	443.21
Loans for Power Projects		1312.12	1312.12		1292.00	1292.00		1292.00	1292.00		1364.64	1364.64
Total-Economic Services Others	12034.05	1940.95	13975.00	11495.4	7 1854.00	13349.47	10809.19	1925.00	12734.19	11720.05	1807.85	13527.90
5. North Eastern Areas	·			1340.0		1340.00	2740.00		2740.00	1572.92		1572.92
6. Capital Outlay on North Eastern Areas					267.45	267.45		61.00	61.00		684.00	684.00
7. Loans for North Eastern Areas					90.00	90.00		90.00	90.00		90.00	90.00
Total-Others Grand Total	12034.05	 1940.95	 13975.00	1340.0 12835.4		1697.45 15046.92		151.00 2076.00			774.00 2581.85	2346.92 15874.82
C. Investment in Public Enterprises	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
National Thermal Power		24133.61	24133.61		22300.00	22300.00		22300.00	22300.00		20000.00	20000.00
Corporation Limited 2. National Hydro Electric Power Corporation Limited	350.00	2372.48	2722.48	482.00	2257.86	2739.86	482.00	2095.40	2577.40	554.64	3251.36	3806.00
Damodar Valley Corporation Limited		784.96	784.96		1605.64	1605.64		1514.38	1514.38		1835.26	1835.26
North Eastern Electric Power Corporation Limited	96.00	1355.76	1451.76	267.45	121.79	389.24	61.00		61.00	684.00		684.00
Satluj Jal Vidyut Nigam Limited		334.38	334.38		935.00	935.00		935.00	935.00		1550.00	1550.00
Tehri Hydro Development Corporation Limited	32.00	674.82	706.82	52.00	1248.37	1300.37	28.00	839.18	867.18	49.00	1408.55	1457.55
7. Power Grid Corporation of India Limited		25791.00	25791.00	•••	25000.00	25000.00		28487.53	28487.53		15000.00	15000.00
8. EBR raised by Rural electrification Coporation 9. Power Finance Corporation		4000.00	4000.00					15000.00 2017.23	15000.00 2017.23			
Total	478.00	59447.01	59925.01	801.45	53468.66	54270.11	571.00	73188.72	73759.72	1287.64	43045.17	44332.81

^{1.} **Secretariat:** Provision is made for expenditure on establishment matters of the Secretariat of the Ministry of Power.

^{2.01.} **Central Electricity Authority:** The Central Electricity Authority (CEA) as a statutory organization is responsible for overall power sector planning, coordination, according concurrence to hydroelectric schemes, promoting and assisting the timely completion of projects, specifying technical standards and

safety requirements, Grid Standards and conditions for installation of meters applicable to the Power Sector of the country.

- 2.02. **Setting up of JERC for UTs and Goa:** The Central Government has set up a Joint Electricity Regulatory Commission (JERC) for Goa and all Union Territories except Delhi. Expenditure of the Joint Commission is borne by the Central Government and the Government of Goa in the ratio of 6:1.
- 2.03. **Appellate Tribunal for Electricity:** Under the provisions of Electricity Act, 2003, the Central Government has set up the Appellate Tribunal for Electricity. It hears appeals against the orders of the adjudicating officer or the Appropriate Commissions under the Electricity Act, 2003. Under the provisions of the Petroleum and Natural Gas Regulatory Board Act, 2006, APTEL is the Appellate Tribunal for the purpose of that Act.
- 2.04. Central Electricity Regulatory Commission (CERC) Fund: CERC is a statutory body constituted under the provision of the erstwhile Electricity Regulatory Commissions Act, 1998 and continued under Electricity Act, 2003 (which has since repealed inter alia the ERC Act, 1998). The main functions of the CERC are to regulate the tariff of generating companies owned or controlled by the Central Government, to regulate the tariff of generating companies other than those owned or controlled by the Central Government, if such generating companies enter into or otherwise have a composite scheme for generation and sale of electricity in more than one State, to regulate the inter-State transmission of energy including tariff of the transmission utilities, to grant licences for inter-State transmission and trading and to advise the Central Government in formulation of National Electricity Policy and Tariff Policy.
- 3.01. **Energy Conservation:** The funds would be utilized for (i) carrying out awareness creation on Energy Conservation through print, electronic and other media for general public, (ii) Continuation of EC awards and painting competition on Energy Conservation, (iii) implementation of the National Mission for Enhanced Energy Efficiency (NMEEE) and (iv) the upscaling of the efforts to create and sustain market for energy efficiency to unlock investments. (v) Shields and certificates are given by MoP to generating stations, transmission and distribution utilities and rural distribution franchise for recognising meritorious performance in operation, project management and environmental protection.
- 4. **Deen Dayal Upadhyaya Gram Jyoti Yojna:** Deendayal Upadhyaya Gram Jyoti Yojna (DDUGJY)has the following objectives: (a) to separate agriculture and non-agriculture feeders to facilitate Discoms in the judicious rostering of supply to agricultural & non-agricultural consumers (b) strengthen and augment sub-transmission & Distribution infrastructure in rural areas and (c) Rural electrification. The scope of works covered under the scheme are Feeder separation, creation of new sub-stations, provision of micro-grid and off-grid distribution network, HT/LT lines, augmentation of sub-stations and metering at all levels. Under the scheme, Govt. of India is providing financial support in the form of grants to the DisComs for implementation of the scheme. All DisComs including Private Sector DisComs are eligible for availing financial support under the scheme. The erstwhile Rajiv Gandhi Gramin Vidutikaran Yojna (RGGVY) has been subsumed in DDUGJY as its Rural Electrification component.
- 5. **Sahaj Bijli Har Ghar Yojana (Rural)- Saubhagya:** Government of India has launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana- Saubhagya. The scheme envisages providing last mile connectivity and electricity connections to all remaining un-electrified households in rural areas by 31st Mar, 2019. The scheme has inherent features of 'sahaj' i.e Simple/ Easy/ Effortless and Har Ghar' i,e universal coverage without any discrimination on any count viz. economic conditions, location, caste & creed etc. Under the scheme, camps would be organized in villages/ cluster of villages wherein applications for electricity connection; including requisite documentation, would be registered electronically with the use of a mobile app and connection would be released on the spot.

- 6. **Integrated Power Development Scheme:** The objective of the scheme is 24x7 power supply for consumers, reduction of AT&C losses and providing access to all households. The scheme has three major components namely improvement of sub-transmisison and distribution system in urban areas, metering & IT enablement in distribution sector under ongoing Restructured-Accelarated Power Development Reform Programme (R-APDRP) scheme, which has been subsumed under Integrated Power Development Scheme (IPDS). R-APDRP has two major components: Part-A includes projects for establishment of information technology-based energy accounting and audit system leading to finalization of verifiable base-line AT&C loss levels in the project areas; Part-B envisages distribution network strengthening investments leading to reduction in loss level. The scheme has both Grant and loan components.
- 6.01. **Transfer to Central Road and Infrastructure Fund (CRIF):** The amount under the scheme is met from Central Road and Infrastructure Fund (CRIF).
- 6.02. **IPDS-Grant:** Grant is given to the utilities through the Nodal Agency for carrying out the activities under the Scheme within a specified time frame.
- 6.03. **IPDS-Loans:** Loan has been given to the utilities for carrying out the activities through the Nodal Agency, which will be converted into grant after successful completion of the programme.
- 6.04. **Sahaj Bijli Har Ghar Yojana (Urban)- Saubhagya:** Government of India has launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana- Saubhagya. The scheme envisages providing last mile connectivity and electricity connections to all remaining un-electrified households for poor households in urban areas by 31st Mar, 2019. The scheme has inherent features of 'sahaj' i.e Simple/ Easy/ Effortless and Har Ghar' i,e universal coverage without any discrimination on any count viz. economic conditions, location, caste& creed etc. Under the scheme, camps would be organized in villages/ cluster of villages wherein applications for electricity connection; including requisite documentation, would be registered electronically with the use of a mobile app and connection would be released on the spot.
- 7.01. **Smart Grids:** The scheme envisages setting up of an institutional mechanism by launching 'National Smart Grid Mission' which would serve the need of an electrical grid with automation, communication and IT systems that can monitor power flows from points of generation to points of consumption and ensure control of power flow or curtailment of loads matching generation on real time basis.
- 7.02. Green Energy Corridors: The scheme is proposed for maximization of renewable energy generation and integration with the main grid without compromising on the security and stability of power system.
- 7.03. **Interest Subsidy to National Electricity Fund:** The National Electricity Fund (NEF) is being set up to provide interest subsidy on loans to be disbursed to the Distribution Companies (DISCOMS) both in the Public and Private Sector, to improve the distribution network for areas not covered by RGGVY and R-APDRP scheme (since subsumed in DDUGJY and IPDS respectively) Project areas.
- 7.04. **Financial support for Debt restructuring of DISCOMS:** The scheme has been formulated and approved by Govt. to enable the turnaround of the State Discoms and ensure their long term viability. The scheme contains measures to be taken by the state Discoms and State Govts. for achieving financial turnaround by restructuring their debt with support through a Transitional Finance Mechanism from the Central Govt.
- 7.05. **220 kV Transmission line from Srinagar to Leh via Kargil:** The provision is for construction of 220kV Transmission System from Alusteng (Srinagar) to Leh (via Drass, Kargil & Khalsti 220/66

PGCIL substations) and 66 PGCIL interconnection system for Drass, Kargil, Khalsti and Leh sub-stations in Jammu & Kashmir (J&K).

- 7.06. Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (Program Component): The project is for Power System Improvement in six NER states viz. Assam, Manipur, Meghalaya, Mizoram, Tripura and Nagaland. It is funded by the World Bank. Intra-State Transmission & Distribution projects for Sikkim & Arunachal Pradesh have been segregated for implementation through budgetary support from Government of India in view of these States having sensitive borders.
- 7.08. Strengthening of Transmission System in the States of Arunachal Pradesh and Sikkim: A comprehensive scheme for strengthening of transmission, sub-transmission and distribution system in the entire NER including Sikkim has been conceptualized.
- 8. **Power System Development Fund:** The scheme envisages (a) strengthening of existing distribution and transmission infrastructure by part-funding through Grants.(Non-Gas component) (b) Provision for subsidy to DISCOMS purchasing electricity from stranded Gas based Power Plants (Gas component).
- 9.01. **Central Power Research Institute:** Central Power Research Institute, Bengaluru serves as a National Laboratory for applied research in the field of electrical power and also functions as an independent authority for testing, evaluation and certification of electrical equipment and components.
- 9.02. **National Power Training Institute:** National Power Training Institute is engaged in imparting training in various aspects of power sector including operation and maintenance of power stations.
- 10. **Conservation and Energy Efficiency:** Funds are provided to Bureau of Energy Efficiency (BEE) for implementation of various energy efficiency initiatives in the areas of household lighting, commercial buildings, Standards & Labeling appliances, Demand Side Management in Agriculture or Municipalities, SMEs and large industries including the initiation of the process for development of Energy Consumption norms for industrial sub-sectors, capacity building of SDAs, DISCOMS etc.
- 11.01. **National Hydro Electric Power Corporation Ltd:** NHPC was set up in 1975 under Companies Act, 1956, with a view to securing speedy, efficient and economical execution and operation of Hydro-Electric projects in the Central Sector. NHPC is a schedule A (Mini Ratna) Enterprise of the Government of India. The Capital Outlay is for meeting in part the need for funds for Chutak HEP/ Nimoo Bazjo.
- 11.02. **Tehri Development Corporation (THDC):** THDC India Limited is a Joint Venture of Govt. of India and Govt. of Uttar Pradesh. The equity is shared between GoI and GoUP in the ratio of 3:1. The company was incorporated in July, 1988 to develop, operate and maintain the 2400 MW Tehri Hydro Power Complex and other hydro projects in the Bhagirathi valley. The Capital outlay is for meeting in part the expenditure on VishnuGadh Pipal Koti HEP.
- 11.03. **North Eastern Electric Power Corporation (NEEPCO):** The North Eastern Electric Power Corporation Limited (NEEPCO), a Schedule A Mini Ratna company under Ministry of Power, set up on 2nd April, 1976, carries the objective of developing the power potential in India and abroad with special emphasis on the NE Region of the country through planned development and commissioning of power projects, which in turn would promote the overall development of the country and NE region in particular. The capital outlay is for meeting part of the expenditure on Kameng HEP as per the requirement.
- 11.04. Central Assistance for Pakul Dul HEP under J and K PMDP 2015 as grant to Chenab Valley Power Projects Private Limited (CVPPPL): It is part of Prime Minister development package

- (2015), the asistance is for the Pakul Dul HEP implemented through joint venture with Chenab Valley Power project Pvt limited.
- 11.05. **Gol fully serviced bond issue expenditure and interest (PFC bonds):** The allocation is required for expenses and on the issue of Bonds, interest payable on infrastructure bonds raise by Power Finance Corporation (PFC).
- 11.06. **Gol fully serviced bond issue expenditure and interest (REC Bonds):** Interest payment on account of EBR of Rs 4000 cr raised during FY 2017-18 and Rs 15000 crore to raised during FY 2018-19 for DDUGJY & Saubhagaya (Rural).
- 11.07. Reimbursement of Claim for any expenditure already incurred by NTPC on Lohari Nagpala Hydro Power: The scheme is for distribution of award in respect of Lohari Nag Pala Hydro Power Project.
- 12. **Acquisition of Coal bearing areas for NTPC:** The allocation is budget neutral as met through recoveries from NTPC on acquisition of Coal bearing areas for NTPC.