

Draft Telangana Electricity Regulatory Commission (Framework for Resource Adequacy) Regulations, 2025.**ANNEXURE -II (Formats 1 to 14)**

Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)									Format-1
Sr. No.	Particulars	Actual of Previous Years			Current Year	YoY growth rate/CAGR - as applicable (%)	Projections		
		Yr-1	Yr-2	Yr-n			Yr-1	Yr-2	...Yr-10
1	Energy Sale - MUs (Consumer Category wise as per Retail Supply Tariff Order)								
	LT Categories								
	LT- I- Domestic								
	LT- II- Non-Domestic/Commercial								
	LT- III- Industrial								
	LT- IV- Cottage Industries								
	LT- V- Agricultural								
	LT- VI- Street Lighting & PWS Schemes								
	LT- VII- General Purpose								
	LT- VIII- Temporary Supply								
	LT- IX- EV Charging Stations								
	HT Category at 11 kV								
	HT-I- Industry								
	HT-I(B)- Ferro Alloys								
	HT-II(A)- Others (Commercial)								
	HT-II(B)- Wholly Religious Places								
	HT-III- Airports, Bus Stations and Railway Stations								

Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)									Format-1
Sr. No.	Particulars	Actual of Previous Years			Current Year	YoY growth rate/CAGR - as applicable (%)	Projections		
		Yr-1	Yr-2	Yr-n			Yr-1	Yr-2	...Yr-10
	HT-IV(A)- Irrigation & Agriculture								
	HT-IV(B)- CPWS Schemes								
	HT-VA- Railway Traction								
	HT-VB- HMR								
	HT-VI- Townships and Residential Colonies								
	HT-VII- Temporary Supply								
	HT-VIII- RESCOs								
	HT-IX- EV Charging Stations								
	HT Category at 33 kV								
	HT-I- Industry								
	HT-I(B)- Ferro Alloys								
	HT-II(A)- Others (Commercial)								
	HT-II(B)- Wholly Religious Places								
	HT-III- Airports, Bus Stations and Railway Stations								
	HT-IV(A)- Irrigation & Agriculture								
	HT-IV(B)- CPWS Schemes								
	HT-VA- Railway Traction								
	HT-VB- HMR								
	HT-VI- Townships and Residential Colonies								
	HT-VII- Temporary Supply								

Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)									Format-1
Sr. No.	Particulars	Actual of Previous Years			Current Year	YoY growth rate/CAGR - as applicable (%)	Projections		
		Yr-1	Yr-2	Yr-n			Yr-1	Yr-2	...Yr-10
	HT-VIII- RESCOs								
	HT-IX- EV Charging Stations								
	HT Category at 132 KV and above								
	HT-I- Industry								
	HT-I(B)- Ferro Alloys								
	HT-II(A)- Others (Commercial)								
	HT-II(B)- Wholly Religious Places								
	HT-III- Airports, Bus Stations and Railway Stations								
	HT-IV(A)- Irrigation & Agriculture								
	HT-IV(B)- CPWS Schemes								
	HT-VA- Railway Traction								
	HT-VB- HMR								
	HT-VI- Townships and Residential Colonies								
	HT-VII- Temporary Supply								
	HT-VIII- RESCOs								
	HT-IX- EV Charging Stations								
2	Total Energy Sale (MU)- (Cumulative of all consumer categories)								
3	YoY growth rate for total energy Sales (%)								
4	Distribution losses - in %								
	LT								

Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)									Format-1
Sr. No.	Particulars	Actual of Previous Years			Current Year	YoY growth rate/CAGR - as applicable (%)	Projections		
		Yr-1	Yr-2	Yr-n			Yr-1	Yr-2	...Yr-10
	11 KV								
	33 KV								
5	Distribution losses - in MU								
	LT								
	11 KV								
	33 KV								
6	Supply / Requirement at DISCOM Boundary(MU)								
7	Intra-State Transmission losses - in %								
8	Intra-State Transmission losses - in MU								
9	Supply / Requirement at State Boundary(MU)								
10	Inter-State Transmission losses - in %								
11	Inter-State Transmission losses - in MU								
12	Ex-Bus Requirement of DISCOM (MU) (excluding OA Consumers) - RESTRICTED								
13	Sale by TGDISCOMs to SEZ (as applicable)								
14	Energy Wheeled for OA Consumers (as applicable)								
15	Ex-Bus Requirement of DISCOM (MU) (including OA) -RESTRICTED								
13	Unsupplied energy due to system constraints (MU)								
14	Ex-Bus Requirement of DISCOM (MU) (excluding OA) - Unrestricted								
15	Ex-Bus Requirement of DISCOM (MU) (including OA) - Unrestricted								
16	System Load Factor								

Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)									Format-1
Sr. No.	Particulars	Actual of Previous Years			Current Year	YoY growth rate/CAGR - as applicable (%)	Projections		
		Yr-1	Yr-2	Yr-n			Yr-1	Yr-2	...Yr-10
17	Peak load of DISCOM (MW) (excluding OA)								
18	Peak load of DISCOM (MW) (including OA)								
Note:	1. The Demand Forecast would be supported by Graphs showing yearly Demand Pattern for Consumer Category and wherever possible sample 24hr Load Duration Curve also needs to be provided								
	2. The Demand Forecast shall be done in accordance with Regulation 6 of the TGERC (Framework for Resource Adequacy) Regulations, 2025								
	3. The above format for furnishing information related to Demand Forecasting is subject to change if methodology adopted for Demand Forecasting is other than Partial End User Method(PEUM)								

Monthly Ex-Bus Energy Requirement (MU)							FORMAT-2
Month	Actual of Previous years			Projections			
	Yr-1	Yr-2	Yr-n	Current Year	Yr-1	Yr-2	Yr-10
State Discoms (Including SEZ and Open Access consumers)							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
TGSPDCL							
Apr							
May							
Jun							
Jul							
Aug							

Monthly Ex-Bus Energy Requirement (MU)							FORMAT-2
Month	Actual of Previous years			Projections			
	Yr-1	Yr-2	Yr-n	Current Year	Yr-1	Yr-2	Yr-10
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
TGNPDCL							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							

Monthly Ex-Bus Energy Requirement (MU)							FORMAT-2
Month	Actual of Previous years			Projections			
	Yr-1	Yr-2	Yr-n	Current Year	Yr-1	Yr-2	Yr-10
SEZ							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
Open Access Consumers							
Apr							
May							
Jun							
Jul							
Aug							
Sep							

Monthly Ex-Bus Energy Requirement (MU)							FORMAT-2
Month	Actual of Previous years			Projections			
	Yr-1	Yr-2	Yr-n	Current Year	Yr-1	Yr-2	Yr-10
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							

Power Supply Projections-Summary Statement (10 Year Period)						Format-3
No.	Particulars	Projections				
		Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
1	For DISCOMs & SEZ (MU)					
2	For State (including OA) (MU)					
3	Energy Requirement (MU) (Ex-Bus)					
4	Energy Availability (MU)					
	TG Genco Thermal Plants					
	TG Genco Hydel Plants					
	Central Sector Stations					
	IPPs					
	Wind Generators Availability					
	Solar Generators Availability					
	Other NCE Generators Availability					
	Other Generators Availability					
	Availability through banking/Power Market					
5	TOTAL (MU)					
6	Surplus(+)/Deficit(-) (MU) (5-3)					
7	Surplus(+)/Deficit(-)(%) (6/1)					
8	Available Generation Capacity (MW)					

Power Supply Projections-Summary Statement (10 Year Period)						Format-3
No.	Particulars	Projections				
		Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
	- TG GENCO Thermal					
	- TG GENCO Hydel					
	- Central Sector					
	- IPPs					
	-Wind Generators Capacity					
	-Solar Generators Capacity					
	Other NCE Generators Availability					
	-Other Generators Capacity					
9	TOTAL (MW)					

Note: The Monthly Power Supply Forecast for the State needs to be furnished separately.

The Power Supply Position would be supported by Graphs showing yearly and Monthly Pattern

Peak Power Supply Projections-Summary Statement (10 Year Period)						Format-4
Peak Hours (Morning/Day/Evening)						
No.	Particulars	Projections				
		Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
1	For DISCOMs & SEZ (MU)					
2	For State (including OA) (MU)					
3	Energy Requirement (MU) (Ex-Bus)					
4	Peak availability (MU) -(Morning/Day/Evening)					
	TG Genco Thermal Plants					
	TG Genco Hydel Plants					
	Central Sector Stations					
	IPPs					
	Wind Generators Availability					
	Solar Generators Availability					
	Other NCE Generators Availability					
	Other Generators Availability					
	Availability through banking/Power Market					
5	Peak availability (excluding banking/Power Market)					
6	Peak availability (including banking/ Power Market)					

Peak Power Supply Projections-Summary Statement (10 Year Period)						Format-4
Peak Hours (Morning/Day/Evening)						
No.	Particulars	Projections				
		Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
7	Surplus(+)/Deficit(-) (excluding banking/ Power Market)					
8	Surplus(+)/Deficit(-) (including banking/ Power Market)					

Note: The Monthly Peak Availability Forecast for the State for morning/day/evening needs to be furnished separately.

The Power Supply Position needs to be supported by Graphs showing yearly or monthly 24 hr load pattern based on Load Research by the Company.

Available/Existing Generation Capacities- Summary Statement (MW)														Format-5
Year: 1.....10														
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													

Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.

Available/Existing Generation Availability- Summary Statement (MWh)														Year: 1.....10
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													

Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.

Planned Generation Capacities- Summary Statement (MW)														Format-6
														Year: 1.....10
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													
Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.														
Planned Generation Availability- Summary Statement (MWh)														Year: 1.....10
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													
Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.														

Generating Station Wise Capacity Available/Planned (Long-Term/Medium-Term/Short-Term)																							Format-7
Name of Generating Stations	Type of Plant	COD/ SCOD	Capacity (MW)	TG Share		Year wise Capacity (MW)			Peak Demand Requirement (MW)			Shortfall (MW)			Energy Availability (MU)			Energy Requirement (MU)			Shortfall (MU)		
				%	MW	Yr-1	Yr-2	...Yr-10	Yr-1	Yr-2	...Yr-10	Yr-1	Yr-2	...Yr-10	Yr-1	Yr-2	...Yr-10	Yr-1	Yr-2	...Yr-10	Yr-1	Yr-2	...Yr-10
Long-Term																							
Medium - Term																							
Short-Term																							
Total																							

Addition of Generation Capacities- Summary Statement (MW)														Format-8
														Year: 1.....10
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													
Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.														
Addition of Generation Availability- Summary Statement (MWh)														Year: 1.....10
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March	Total
1	State Gencos													
2	State Hydels													
3	Central Sector													
4	IPPs													
5	Renewables (Source Wise)													
6	Total Available Generation Capacity of Telangana													
Note: The above format needs to be filled considering the plant wise availability of each State/Central Generating plants, IPPs, Renewable plants and other Plants for entire 10-year plan.														

Generating Station Wise Capacity Addition (Long-Term/Medium-Term/Short-Term)															Format-9
Name of Generating Stations	Type of Plant	COD/ SCOD	Capacity (MW)	TG Share		Year wise Capacity Addition program (MW)					Energy Availability (MU)				
				%	MW	Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10	Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
Long-Term															
Medium -Term															
Short-Term															
Total															

Summary - Generating Station Wise Capacity (Long-Term/Medium-Term/Short-Term)															Format-10
Name of Generating Stations	Type of Plant	COD/ SCOD	Capacity (MW)	TG Share		Year wise Capacity Addition program (MW)					Energy Availability (MU)				
				%	MW	Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10	Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
Long-Term															
Medium -Term															
Short-Term															
Total															

																						Format-11
Sr. No.	Name of Generating Station	Region /State	Installed capacity (MW)	Share of TG (%)	CO D/ SCOD	Expected Retirement Year	Fixed Cost (Rs/MW)	Variable Cost (Rs/kWh)	Auxiliary Consumption (%)	Max Generation Limits (MW)	Min Generation Limits (MW)	Fuel GCV (GJ/kg)	Heat Rate (at full Load)	Heat rate (at part load i.e. 55%)	Ramp Up rate (MW/min)	Ramp down rate (MW/min)	Plant Availability Factor (in %) in case of Thermal and Hydro / Capacity Utilisation Factor for renewables	Design Energy in case of Hydro (MU)	Date of signing of PPA	Date of Expiry of PPA	Type of Capacity (Existing/Planned/Addition)	Contract Type (Long-Term/Medium Term and Short Term)

Plan for Renewable Power Obligation (RPO)						Format-12	
Sr. No.	Particulars		Projection				
			Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
1	Ex-Bus Energy Requirement (MU) (DISCOMs + SEZ)						
2	Energy requirement to be considered for RPO (MU)						
a	Solar	RPO %					
b		RPO (MU)					
c	Non-Solar	RPO %					
d		RPO (MU)					
3	Year wise Renewable Capacity already tied up (MW)						
a	Solar						
b	Non-Solar						
c	Total						
4	Energy Available from Existing Renewable Capacity (MU)						
a	Solar						
b	Non-Solar						
c	Total						
5	Additional capacity required for fulfilling RPO (MW)						
a	Solar						
b	Non-Solar						
c	Total						
6	Additional Energy required for fulfilment of RPO (MU)						
a	Solar						
b	Non-Solar						

Plan for Renewable Power Obligation (RPO)						Format-12
Sr. No.	Particulars	Projection				
		Yr-1	Yr-2	Yr-3	Yr-4	...Yr-10
c	Total					
6	Year wise Total Renewable capacity required to be tied up to fulfil RPO (MW)					
7	Year wise Total Renewable Energy required to fulfil RPO (MU)					

Deviation in Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom: _____)					Format-13
Sr. No.	Particulars	Previous Years approved as per Plan (1)	Actual (2)	Deviation (2-1)	Reasons for deviation
1	Total Energy Sale (MU)- (Cumulative of all consumer categories)				
2	Distribution losses - in %				
3	Distribution losses - in MU				
4	Supply / Requirement at DISCOM Boundary(MU)				
5	Intra-State Transmission losses - in %				
6	Intra-State Transmission losses - in MU				
7	Supply / Requirement at State Boundary(MU)				
8	Inter-State Transmission losses - in %				
9	Inter-State Transmission losses - in MU				
10	Ex-Bus Requirement of DISCOM (MU) (excluding OACs) - RESTRICTED				
11	Sale by Discoms to SEZ (as applicable)				
12	Energy Wheeled to OA Consumers (as applicable)				
13	Ex-Bus Requirement of DISCOM (MU) (including OA) -RESTRICTED				
14	Unsupplied energy due to system constraints (MU)				
15	Ex-Bus Requirement of DISCOM (MU) (excluding OA) - Unrestricted				
16	Ex-Bus Requirement of DISCOM (MU) (including OA) - Unrestricted				
17	System Load Factor				
18	Peak load of DISCOM (MW) (excluding OA)				
19	Peak load of DISCOM (MW) (including OA)				

Deviation in Energy Availability				Format-14	
Sr. No.	Particulars	Previous Years approved as per Plan (1)	Actual (2)	Deviation (2-1)	Reasons for deviation
1	Energy Requirement (MU) (Ex-Bus)				
2	For DISCOMs & SEZ (MU)				
3	For State (including OA) (MU)				
4	Energy Availability (MU)				
	TG Genco Thermal Plants				
	TG Genco Hydel Plants				
	Central Sector Stations				
	IPPs				
	Wind Generators Availability				
	Solar Generators Availability				
	Other NCE Generators Availability				
	Other Generators Availability				
	Availability through banking/Power Market				
5	TOTAL (MU)				