	Demand Forecast (Summary Statement for State and All DISCO		J /	,	iscom:	)	Т		Format-1
Sr. No.	Particulars Particulars	Actu	al of Previous	Years	Current Year	YoY growth rate/CAGR - as		Projections	
J1. 1 <b>10.</b>	1 atticulais	Yr (n-3)	Yr (n-2)	Yr (n-1)	(n)	applicable (%)	Yr (n+1)	Yr (n+2)	Yr (n+10)
1	Energy Sale - MUs (Consumer Category wise as per Retail Supply Tariff Order)					- F F ( )			
	Domestic								
	Non-Domestic								
	Public Water Works & Street Light								
	LT Industries								
	Agriculture and Allied Activities								
	E-Vehicle/ E-Rickshaws Charging Stations								
	Railway Traction								
	Coal Mines								
	HT Industrial, Non-Industrial and shopping malls								
	HV-3.1: Industrial								
	HV-3.2: non-Industrial								
	HV-3.3: shopping malls								
	HV-3.4: Power Intensive Industries								
	Seasonal & Non-Seasonal								
	Irrigation, Public Water Works and Other than Agricultural								
	Bulk Residential Users								
	Synchronization/ Start-Up Power								
	E-Vehicle/ E-Rickshaws Charging Stations								
	HV-9: Metro Rail								
	Others Category1								
	Others Category2								
	Others Category3								
2	Total Energy Sale (MU)- (Cumulative of all consumer categories)								
	YoY growth rate for total energy Sales (%)								
4	Distribution losses - in %								
5	Distribution losses - in MU								
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)								
13	Sale by MPPMCL to SEZ								
14	Energy Wheeled for Railways/OA Consumers								
15	Ex-Bus Requirement of State (MU)								
	Peak load of DISCOM (MW)								
17	Peak load of State (MW)								
	1. The Demand Forecast would be supported by Graphs showing yearly Demand Pattern for Consumer Catego	ry and wherever	r possible sample	24hr Load Dura	tion Curve also ne	eds to be provided	ı	1	
Note:	2. The Demand Forecast shall be done in accrdance with Regulation 6 of the MPERC (Framework for Resource					•			
	3. The above format for furnishing information related to Demand Forecasting is subject to change if methodolog			ng is other than	РЕИМ.				

	Mo	onthly Ex-B	us Energy	Requiremen	it (MU)		Format-2
		of Previous				ections	
Month	Yr (n-3)	Yr (n-2)	Yr (n-1)	Current Year (n)	Yr (n+1)	Yr (n+2)	Yr (n+10)
State (DISC	OMs inclu	ding SEZ, C	ACs, Rail	ways)		_	
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
East DISCO	M						
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
West DISCO	)M		ī	Ī		T	1
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar	COM						
Central DIS	COM						-
Apr							
May							

	Mo	onthly Ex-B	us Energy	Requiremer	nt (MU)		Format-2
	Actual	of Previous	s Years		Proj	ections	
Month	Yr (n-3)	Yr (n-2)	Yr (n-1)	Current Year (n)	Yr (n+1)	Yr (n+2)	Yr (n+10)
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
SEZ							
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							
OACs and Ra	ailways						
Apr							
May							
Jun							
Jul							
Aug							
Sep							
Oct							
Nov							
Dec							
Jan							
Feb							
Mar							

Power	Supply Projections					Format-3
No.	Particulars -			Projections		
NO.	Farticulars	Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+4)	Yr (n+10)
	Ex-Bus Requirement of State (MU)					
1	For DISCOMs (MU)					
1	For SEZ (MU)					
	For OA & Railways (MU)					
	Energy Availability (MU)					
	MP Genco Thermal Plants					
	MP Genco Hydel Plants					
	ISP, OSP, SSP & Other Hydel					
	Central Sector Stations					
	DVC Plants					
2	UMPP & IPPs					
	Wind Genrators Availability					
	Solar Generators Availability					
	Other Generators Availability					
	Availability thorugh banking/Power Market					
	Others Sources (If any)					
	TOTAL (MU)					
3	Surplus(+)/Deficit(-) (MU)					
4	Surplus(+)/Deficit(-)(%)					
Note:	1. The yearly Energy requirement/Supply should tally with monthly require			n Format-2		
INOIC.	2. The Power Supply Position would be supported by Graphs showing yearl	y and Monthly I	Pattern			

Peak I	Demand and Availability Projections					Format-4
(Peak	Hours/Off-Peak Hours)					
No.	Particulars –			Projections		
110.		Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+4)	Yr (n+10)
	Available Generation Capacity (MW)					
	MP Genco Thermal Plants					
	MP Genco Hydel Plants					
	ISP, OSP, SSP & Other Hydel					
	Central Sector Stations  DVC Plants					
1	UMPP & IPPs					
1	Wind Generators Availability					
	Solar Generators Availability					
	Other Generators Availability					
	Availability through banking/Power Market					
	Others Sources (If any)					
	TOTAL (MW)					
2	Peak Load of State (MW)					
	Peak Availability (MW)					
	MP Genco Thermal Plants					
	MP Genco Hydel Plants					
	ISP, OSP, SSP & Other Hydel					
	Central Sector Stations					
	DVC Plants					
3	UMPP & IPPs					
	Wind Generators Availability					
	Solar Generators Availability					
	Other Generators Availability					
	Availability through banking/Power Market					
	Others Sources (If any)					
	TOTAL (MW)					
4	Surplus(+)/Deficit(-) (MW)					
5	Surplus(+)/Deficit(-) (%)					
	1. This format is to be submitted for Peak Hours and Off-Peak Hours Separately					
Note:	2. The Power Supply Position needs to be supported by Graphs showing yearly or mon		ttern based on Load R	esearch by the Comp	any.	
	3. Peak Hours and Off-Peak Hours shall be as specified in the Retail Supply Tariff Ord	er				

Availab	le/Exisitng Generation Capacities	and Year wi	se Energy Availab	oility				Format-5
Ma	Name of Plant	COD	Compailed (NATA)	State Share		Energy Availa	bilty (MU)	
No.	Name of Flant	COD	Capacity (MW)	(MW)	Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+10)
	MP Genco Thermal Plants	•				•		
1								
	MP Genco Hydel Plants	1				<u> </u>	<u> </u>	
2								
	ISP, OSP, SSP & Other Hydel							
3								
			1					
	Central Sector Stations						<u>l</u>	
4			T			1	1	
_								
	DVC Plants						<u> </u>	
5	D V C T MARES		1				1	
	Wind Genrators Availability							
6	White Geneators Availability		1			1	1	
			+					
	Solar Generators Availability							
7	Solal Generators Availability		T			1	<u> </u>	
_ ′								
	Other Congretors Assistability							
0	Other Generators Availability		4 -			1	-	
8								
		35.1.						
	Availability thorugh banking/Por	wer Market	<u> </u>			1	T	
9								
								<u> </u>
	Others Sources (If any)	1	1			T	1	•
10								
	Total							
	1. This format is to be submitted Sepa							
Note:	2. The above format needs to be filled	considering th	e plant wise availab	lility of each State	/Central Generating	g plants, IPPs, Renewa	ble plants and other	Plants for entire
	10-year plan.							

Details (	of Planned/Upcoming Capacities f	or future year	s alongwith En	ergy Availabili	ty							Format-6
No.	Name of Project	Capacity	State Share	SCOD	Year	wise Capa	city Additi	on (MW)		<b>Energy Avail</b>	abilty (MU	J)
140.	Name of 110ject	(MW)	(MW)	SCOD	Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+10)	Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+10)
	MP Genco Thermal Plants											
1												
	MP Genco Hydel Plants											
2												
	ISP, OSP, SSP & Other Hydel											
3												
	Central Sector Stations							-			•	
4												
	DVC Plants		T								<del> </del>	
5												
	Wind Genrators Availability										1	
6												
												<u> </u>
_	Solar Generators Availability											
7												
	Other Generators Availability							1			1	
8												
	A . 21.1.222 (1	N 1 1									<u>j</u>	
	Availability thorugh banking/Pov	ver Market	I									
9												
	Others Sources (If any)										<u> </u>	
10	Others Sources (If any)											
10												
	Total											
	1. This format is to be submitted Sepan	ratalu for I on a	Torm/Modium T	ovm/Chort Town								
Note:												
1,0101	2. The above format needs to be filled c	onsidering the p	olant wise availal	lility of each Stat	te/Central C	Generating p	olants, IPPs,	Renewable plan	ts and other l	Plants for entire	г 10-year pla	an.

Month-	Wise Energy Availabilty from Ava	ailable/Exis	itng Gene	ration Cap	acities								Format-7
No.	Name of Project					N	Ionthly Energ	gy Availab	ilty (MU)				
140.	Ivanie of Troject	April	May	June	July	August	September	October	November	December	January	February	March
	MP Genco Thermal Plants												
1													
	MP Genco Hydel Plants												
2													
	ISP, OSP, SSP & Other Hydel					T	T	1				1	
3													
	Central Sector Stations	1				I	I	<u> </u>					
4													
	DVC Plants												
5	DVCTIants					I	I						
	Wind Genrators Availability												
6													
	Solar Generators Availability						I						
7													
	Other Generators Availability					•	•						
8													
	Availability thorugh banking/Po	wer Marke	t										
9													
	Others Sources (If any)					1	ı	1					
10													
	Total		T A	(. 1: T	/Cl	<u></u>							
	1. This format is to be submitted Sepa				n/Snort-1e	rm							
Note:	2. This format is to be furnished year-												
	3. The above format needs to be filled	considering	the plant w	ise availablii	lity of each	State/Centr	al Generating p	olants, IPPs	, Renewable pl	ants and other	Plants for	entire 10-yea	r plan.

Month-	Wise Energy Availabilty from Plar	ned/Upcoi	ming Gen	eration Ca <sub>l</sub>	pacities								Format-8
No.	Name of Project					N	Ionthly Energ	gy Availab	ilty (MU)				
140.	rvanie of 1 foject	April	May	June	July	August	September	October	November	December	January	February	March
	MP Genco Thermal Plants												
1													
	MP Genco Hydel Plants												
2													
	ISP, OSP, SSP & Other Hydel	1				T	T	1				1	
3													
	Central Sector Stations	1 1				I	I	1					
4													
	DVC Plants												
5	DVCTIants	1 1				I	I						
	Wind Genrators Availability	<u>l</u>		ļ									
6													
	Solar Generators Availability	1					I						
7													
	Other Generators Availability					•	•						
8													
	Availability thorugh banking/Pov	wer Market	t										
9													
	Others Sources (If any)	1				1	ı	1					
10													
	Total	untales fau I	T A	(. 1: T	/Cl	<u></u>							
	1. This format is to be submitted Separation for the format is to be formational account.				n/Snort-1e	rm							
Note:	2. This format is to be furnished year-												
	3. The above format needs to be filled o	considering t	the plant wi	ise availablil	lity of each	State/Centr	al Generating p	olants, IPPs	, Renewable pl	ants and other	Plants for	entire 10-yea	r plan.

	D 1					]	Monthly Ener	rgy Availa	bilty (MU)			•	
No.	Particulars	April	May	June	July	August	September	October	November	December	January	February	March
	Yr (n+1)					•							
	Energy Requirement												
1	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-)(%)												
	Yr (n+2)												
	Energy Requirement												
2	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-)(%)												
	Yr (n+3)												
	Energy Requirement												
3	Energy Availability												
	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-)(%)												
	Yr (n+10)												
	Energy Requirement												
 10	Energy Availability												
10	Surplus(+)/Deficit(-) (MU)												
	Surplus(+)/Deficit(-)(%)												
	1.This format figures should tally	y with Forma	t-2, Forma	t-7 and For	mat-8							<u> </u>	
lote:	2. This format is to be furnished	year-wise for	entire 10-y	jears separa	tely								

G	enerati	ng Stations De	etails														Format-10
s	or. No.	Name of Generating Station	Region /State	Installed capacity (MW)	Share of MP (%)	COD/ SCOD	Expected Retirement Year	Fixed Cost (Rs/MW)	Variable Cost (Rs/kWh)	Auxiliary Consumpution (%)	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)

Continued...

Generating Stations Details													Format-10
Plant Availbility Factor (in %) in case of Thermal and Hydro / Capacity Utulisation Factor for renewable based resources	Design Energy in case of Hydro (MU)	Start-up Cost (Rs. Crore)	Start-up time (Hours)	Backdown Compention Cost (Rs. Crore)	Planned Maintenance (Hours)	Forced Outage (Hours)	(PPA/MOD/	Storage (In case of Hydro & PSP) (in MWh)	(Rs /Crore/M	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 O	bligation (RPO)						Format-11
	Projection					on	
	Particulars		Yr (n+1)	Yr (n+2)	Yr (n+3)	Yr (n+4)	Yr (n+10)
Ex-Bus Energy Requiremen	nt (MU) (DISCOMs + SEZ)	MU					
			1	r	r	1	
	RPO	%					
	RPO						
Wind RPO (by WPPs commissioned	Availability from Qualified Tied up (including consented) projects	MU					
after 31st March 2022)	Availability from Wind Component of RE RTC projects	1,110					
	Year wise Balance RPO quantum to be met						
	Additional Capacity required up to fulfill RPO	MW					
	RPO	%					
НРО	RPO						
(by Hydro projects commissioned after 8th	Availability from Qualified Tied up (including consented) projects	MU					
March 2019)	Year wise Balance RPO quantum to be met						
	Additional Capacity required up to fulfill RPO	MW					
	RPO	%					
	RPO						
	Old WPP's Contribution	MU					
Other RPO (Solar, WPPs commissioned before	Old Hydro Project's Contribution						
31.03.2022, Hydro	Availability from Tied up Solar projects (including consented)						
commissioned before 8th March 2019)	Availability from Solar Component of RE RTC projects						
	Total Contribution from Tied up Projects						
	Remaining RPO Quantum						
	Additional Capacity required up to fulfill RPO	MW					
			•				
	RPO	%					
Total RPO	RPO	MU					
	RPO	MW					
	Energy Storage Obligation	%					
ESO	Energy to be procured through Storage	MU					
	Energy to be procured through Storage	MW					

Deviation in Demand Forecast (Summary Statement for State and All DISCOMs separately) - Discom wise (Name of Discom:)					Format-12
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)				
11	Sale by MPPMCL to SEZ				
12	Energy Wheeled for Railways/OA Consumers				
13	Ex-Bus Requirement of State (MU)				
14	Peak load of DISCOM (MW)				
15	Peak load of State (MW)				

Deviation in Energy Availability					Format-13
Sr. No.	Particulars	Previous Years approved As per Plan (1)	Actual (2)	Deviation (2-1)	Reasons for deviation
1	Ex-Bus Requirement of State (MU)				
	For DISCOMs (MU)				
	For SEZ (MU)				
	For OA & Railways (MU)				
2	Energy Availability (MU)				
	MP Genco Thermal Plants				
	MP Genco Hydel Plants				
	ISP, OSP, SSP & Other Hydel				
	Central Sector Stations				
	DVC Plants				
	UMPP & IPPs				
	Wind Genrators Availability				
	Solar Generators Availability				
	Other Generators Availability				
	Availability thorugh banking/Power Market				
	Others Sources (If any)				
5	TOTAL (MU)		_	_	_