



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

संख्या: NRPC/OPR/102/01/2019/9858-96

दिनांक: 09.09.2019

सेवा में,

सूची अनुसार

**विषय:** Meeting notice for 18<sup>th</sup> meeting of LGBR sub-committee

The preparation of Load Generation Balance Report (LGBR) for the FY 2020-21 is to be undertaken. In this regard, please find enclosed herewith data formats from Annex-I to VII for submission of relevant data and maintenance schedule for LGBR 2020-21.

2. These formats are regarding:

- Effective Capacity of own Generating stations, share in CGSs / own IPPs.
- Maintenance schedule of the machines
- Addition in installed capacity anticipated during the FY 2020-21
- Anticipated ex-bus peak generation and off-peak generation (at 03:00 hrs.) in MW and monthly average ex-bus energy generation (in MU).
- Peak and off-peak demand in MW and energy (MU) on monthly basis (both unrestricted demand and demand after taking into account load shedding and other constraints)
- Anticipated power import/export / banking agreements with constituents of own region and other regions
- Monthly anticipated water levels and energy content (in respect of Hydro stations)

3. SLDCs are requested to co-ordinate with IPPs and State Generating Companies within their state and submit the data. The above information may kindly be submitted in the prescribed excel format by email to [seo-nrpc@nic.in](mailto:seo-nrpc@nic.in) by **30<sup>th</sup> September 2019**. The subject of the mail should be "LGBR 2020-21" followed by the name of the constituent.

4. It is also intimated that 18<sup>th</sup> meeting of LGBR sub-committee to finalize annual outage schedule of generating units and month-wise, state-wise demand for FY 2020-21 will be held at **10.30 AM on 10.10.2019 (Thursday)** at NRPC Secretariat, New Delhi. Guidelines agreed in 1<sup>st</sup> meeting of LGBR sub-committee for finalizing the annual generation outage plan are attached as Annex-VIII for compliance.

5. The data for review of third quarter of LGBR 2019-20 may also be submitted for discussion in the meeting.

संलग्नक: यथोपरि

  
04/09/2019

(सौमित्र मजूमदार)

अधीक्षण अभियंता

## List :

1. Development Commissioner (P), PDD, Jammu, J&K, (Fax-0191-2530265/2474233)
2. Sh. R.K. Sharma, Director (Tech), HPSEB Ltd, Shimla-171004, (Fax- 0177-26163554)
3. Sh. V.K. Kalra, Member (Power), BBMB, Chandigarh-160019, (Fax-0172-2549548)
4. Sh. V. Venugopal, GM, SLDC, DTL, New Delhi-110002, (Fax-011-23221012)
5. Sh. Jagdish Kumar, Director (Technical), IPGCL, New Delhi-110002, (Fax-011-23270590)
6. Chief Engineer (SO&C), SLDC, HVPNL, Sewah, Panipat , (Fax-0172-2560622/2560547)
7. Director (Generation), HPGCL, Panchkula-134109 (Fax-0172-2560622 & 2565042)
8. Superintending Engineer, SLDC, HP LDS, Totu, Shimla, (Fax-0177-2837543)
9. Managing Director, J&K State Power Dev. Corp., Srinagar, J&K, (Fax-0194-2500145)
10. Director (Distribution), PSPCL, The Mall, Patiala, (Fax- 0175-2212069)
11. Chief Engineer (TO), UPRVUNL, Lucknow-226001, (Fax-0522-2287861)
12. Managing Director, UPCL, Dehradun-248006, (Fax-0135-2768867)
13. Director (Operation), UJVNL, Dehradun-248006, (Fax-0135-2761549)
14. Executive Director (O&M), NHPC, Faridabad-121003, (Fax-0129-2255706/2271419/2272413)
15. Sh. K.P.Singh Chief Engineer (E&T), NPCIL, Mumbai-400094, (Fax-022-25993332/25183536)
16. Regional Executive Director (NR), NR-HQ, NTPC, Lucknow-226010, (Fax-0522-2305842)
17. Sh. R.K. Bansal, Director (E), SJVNL, New Delhi, (Fax-011-41018826)
18. General Manager (Electrical Design), THDC, Rishikesh-249201, (Fax-0135-2438682)
19. AGM (O&M), Aravali Power Company Pvt. Ltd., Jhajjar (Fax-01251-266265)
20. Sh. Karunakar Jha, DGM (Commercial), Jhajjar Power Ltd., Haryana, (Fax-01251-270105)
21. Sh. Ranjan Kumar, WTD, Lanco Anpara Power Ltd., (Fax-124-4741024)
22. Sh. Hirday Singh Tomar, Addl. Vice President, Rosa PSCL , (Fax-05842-300003)
23. Sh. Girish Deshpande, Director (Technical) JSW Energy Ltd., New Delhi (Fax: 48178740)
24. Sh. Kanti Biswas, Station Head, Adani Power Rajasthan Ltd., Ahmedabad-380006 (Fax No- 079-25557176)
25. Shree Cement Limited, Beawar - 305 901 (Fax: 01462-228117/228119)
26. Sh. Vikas Saxena, President, Lalitpur Power generation Company Ltd., Noida-201301(Fax: 0120-4045100/555, 2543939/40)
27. Sh. Sameer Ganju, Head-Northern Region, Adani Enterprises Ltd., New Delhi-110021 (Fax- 01124115560)

## Load Generation Balance Report (2020-21)

Annexure - I

### 1. Effective Capacity of own stations and IPPs during the period from April-2020 to March-2021

Name of the Station	Thermal/ Nuclear/ Gas/ Hydro/ Other	Unit No.	Effective Capacity/Share (MW)	Plant			Remarks
				Aux. Consumption (%)	Forced Outage Rate (%)	PLF (%)	
Own Stations							
Station Name # 1		1					
		2					
		3					
		4					
		Station					
Station Name # 2		1					
		2					
		3					
		4					
		Station					
IPPs							
Station Name # 3		1					
		2					
		3					
		4					
		Station					
Station Name # 4		1					
		2					
		3					
		4					
		Station					
CGS		IC	Share				
Station Name # 5							
Station Name # 6							

**Annexure - II****2. Maintenance Schedule from April-2020 to March-2021 (including IPPs)**

स्टेशन / Station	यूनिट / Unit	स्टेशन क्षमता Station Capacity (MW)	वार्षिक आउटेज योजना के अनुसार अनुरक्षण शेड्यूल Maintenance Schedule as per Annual Outage Planning			Date of BLR (for Thermal/Gas unit) during 2020-21	अभ्युक्तियाँ Remarks
			से / From	तक / To	दिनों की संख्या No of Days		
Station Name # 1	1	200	1-Apr-20	30-Apr-20	30		Capital Overhaul
			1-Mar-21	10-Mar-21	10		Boiler License renewal
	2	200	10-Aug-20	15-Aug-20	6		Annual Maintenance
	3	200					
	4	300					
	5	300					
	6	300					
	<b>Total</b>	<b>1500</b>					
Station Name # 2	1						
	2						
	3						
	4						
	5						
	6						
	<b>Total</b>						
Station Name # 3	1						
	2						
	3						
	4						
	5						
	6						
	<b>Total</b>	<b>1500</b>					

**Annexure-III**

**3. Likely Addition in Installed Capacity during April-2020 to March-2021 (including IPP)**

Name of Station	Thermal / Nuclear/ Gas/ Hydro/ Other	Unit. No.	Capacity (MW)	Month of		Ex-Bus MU/Day	टिप्पणी / Remarks
				Commissioning	COD	FY 2020-21 (month wise details to be submitted in A-IV)	
Station Name # 1							
Station Name # 2							

## 4. Month-wise generation, Ex-bus Peak targets in MW and average Ex-bus energy generation in MU (including Renewables/own IPPs)

Name of Station	IC / Share (MW)	Apr-20			May-20			Jun-20			Jul-20			Aug-20			Sep-20			Oct-20			Nov-20			Dec-20			Jan-21			Feb-21			Mar-21		
		Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy	Peak	Off-peak (at 300 hrs)	Energy						
		(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)	(MW)		(MU)			
Station 1 (own station)																																					
Station 2 (IPP)																																					
Total small hydro																																					
Total solar																																					
Total wind																																					
Total Others																																					

**5 MONTHLY REQUIREMENT IN MW (MAX. DURING EVENING PEAK HOURS) AND ENERGY (MU) FOR  
THE PERIOD APRIL-2020 TO MARCH- 2021**

**5.1 Unrestricted Demand**

	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Remarks
MW (Peak)													
MW (Off-Peak at 3.00 hrs.)													
MU													

**5.2 Restricted Demand (taking into account planned load shedding and other constraints)**

	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Remarks
MW (Peak)													
MW (Off-Peak at 3.00 hrs.)													
MU													

## 6. Anticipated power import/export bilateral agreement / banking arrangement with other constituents (existing /likely)

### 6.1 Anticipated power import/export / banking agreement with constituents of Northern region (existing / likely)

Constituent		Nature of agreement	Quantum (MW)	Anticated ex-bus power	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Remarks
From (Station name / State)	To (Station name / State)	Share in generation / LTA / MTOA		MW (Peak)													
				MW (Off-Peak at 3.00 hrs.)													
				MU													
From (Station name / State)	To (Station name / State)	Banking / Bilateral		MW (Peak)													
				MW (Off-Peak at 3.00 hrs.)													
				MU													

### 6.2 Anticipated power import/export /banking agreement with constituents of other region (existing / likely)

Constituent		Nature of agreement	Quantum (MW)	Anticated ex-bus power	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Remarks
From (Station name / State)	To (Station name / State)	Share in generation / LTA / MTOA		MW (Peak)													
				MW (Off-Peak at 3.00 hrs.)													
				MU													
From (Station name / State)	To (Station name / State)	Banking / Bilateral		MW (Peak)													
				MW (Off-Peak at 3.00 hrs.)													
				MU													

**ANNEXURE-VII****7. Monthly anticipated water levels and energy content for the period  
April 2020 to March 2021**

<b>Name of Hydro Station</b>	<b>Month</b>	<b>Levels as on 1st (Ft)</b>	<b>Average inflows during the month (Cusecs)</b>	<b>Average discharge during the month (Cusecs)</b>	<b>Energy content as on 1st (MU)</b>
<i>Station Name # 1</i>	Mar-20				
	Apr-20				
	May-20				
	Jun-20				
	Jul-20				
	Aug-20				
	Sep-20				
	Oct-20				
	Nov-20				
	Dec-20				
	Jan-21				
	Feb-21				
	Mar-21				
<i>Station Name # 2</i>	Mar-20				
	Apr-20				
	May-20				
	Jun-20				
	Jul-20				
	Aug-20				
	Sep-20				
	Oct-20				
	Nov-20				
	Dec-20				
	Jan-21				
	Feb-21				
	Mar-21				

**Guidelines agreed in 1<sup>st</sup> meeting of LGBR Sub-committee for finalizing the annual generation outage plan are:**

- (i) Planned shutdown of generating unit, particularly that of 500 MW and above should be avoided during summer particularly during the period from 15-May to 15 August. However, in case of Rajasthan, since their peak demand occurs during winter and also since considerable wind generation is available during summer, planned outage of intra-State generating units may be allowed in summer after careful consideration.
- (ii) Planned shutdown of thermal units (Coal based, lignite based, gas based and Nuclear) should be avoided during winter particularly from 15th December to 30th January.
- (iii) Concurrent shutdown of more than two generating units of capacity 500 MW or more should be avoided.
- (iv) Shut downs in combined cycle gas based stations should be planned in such a manner that operation in open cycle is avoided. For this purpose, whenever shutdown of ST unit is planned, endeavor should be made to carry out maintenance in GT units as well.
- (v) There is not much flexibility as far as planned shutdown of GTs is concerned as the same is to be decided based on Equivalent Operating Hours (EOH). However, possibility of advancing these shutdowns to some extent should be considered so as to follow other guidelines.
- (vi) In case of Gas based station, the generating company shall inform beneficiaries, NRLDC and NRPC Secretariat at least 100 hours before EOH limit is about to expire.
- (vii) Concurrent planned shutdown of two generating unit at a generating station should be avoided.
- (viii) For Central Generating Stations dedicated to a particular State, prior consultation with SLDC concerned would be carried out before finalizing annual generation outage plan.