

A. INTRODUCTION

1.1 BSES Yamuna Power Limited (BYPL), the Distribution Licensee, has filed additional information for ARR of FY 2020-21, based on the Commission’s directions considering the impact of nationwide lockdown due to out-break of COVID-19.

1.2 This Executive Summary contains the summary of the above-mentioned additional information required for Aggregate Revenue Requirement (ARR) & Tariff for FY 2020-21 which shall be determined based on the provisions of DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 and DERC (Business Plan) Regulations, 2019. ARR broadly has the following components:

- a) Power Purchase Cost including Transmission Charges
- b) Operation and Maintenance (O&M) expenses
- c) Return on Capital Employed
- d) Depreciation
- e) Income Tax
- f) Non-tariff Income, etc.

1.3 The following tables/ figures have been extracted from the additional information submitted by BYPL for ease of understanding to various stakeholders. Complete additional information, earlier Tariff Petitions for True up of FY 2018-19 & ARR of FY 2020-21 along-with earlier executive summaries are also available on DERC website <http://www.derc.gov.in>

B. ARR OF FY 2020-21

1.4 The month wise impact of COVID-19 and lockdown conditions on operation of various consumer categories is tabulated below:

Table 1: Impact of COVID19 and lockdown on Operation of consumers

Sr. No.	Category	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
A	Domestic												
A1	Domestic Other than A2 to A4	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
A2	CGHS	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
A3	11 KV Worship/Hospital	80%	80%	80%	80%	80%	80%	80%	100%	100%	100%	100%	100%
A4	DVB Staff	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
B	Non Domestic												
B1	Non Domestic LT	70%	25%	25%	50%	50%	50%	70%	70%	70%	85%	85%	85%
B2	Non Domestic HT	70%	25%	25%	50%	50%	50%	70%	70%	70%	85%	85%	85%
C	Industrial												
C1	Industrial LT	70%	1%	1%	50%	50%	50%	70%	70%	70%	85%	85%	85%
C2	Industrial HT	70%	60%	60%	80%	80%	80%	90%	90%	90%	90%	90%	90%
D	Agriculture	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
E	Public Utilities												

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Sr. No.	Category	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
E1	Public Lighting	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
E2	DJB LT	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
E3	DJB HT	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
E4	DMRC	75%	1%	1%	1%	50%	50%	70%	70%	70%	100%	100%	100%
F	Temporary Supply	75%	30%	30%	75%	75%	75%	75%	75%	75%	100%	100%	100%
G	Advertisement & Hoardings	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
H	E Vehicle	50%	0%	0%	50%	50%	50%	100%	100%	100%	100%	100%	100%
I	Self-Consumption	0.25 % of Sales											
J	Enforcement	0%	0%	0%	50%	50%	50%	75%	75%	75%	100%	100%	100%

1.5 BYPL has projected the energy sales and revenue for FY 2020-21 as follows:

Table 2: Estimated Energy Sales and Revenue for FY 2020-21

Sr. No.	Category	Sales (MU)	Fixed Charges	Energy Charges	Other Charges	PPAC	Total Revenue
1.	Domestic	4216	186	1729	(2)	61	1975
2.	Non-Domestic	972	483	824	(5)	29	1331
3.	Industrial	236	64	190	(2)	5	258
4.	Agriculture	0	0	0	-	0	0
5.	Public Utilities*	287	58	197	(4)	6	256
6.	Temporary Supply	40	-	44	-	1	45
7.	Advertisements and Hoardings	0	0	0	-	0	0
8.	E-Vehicle	13	-	6	-	0	6
9.	Own Consumption	14	-	-	-	-	-
10.	Enforcement	7	-	10	-	0	10
11.	Others	0	-	-	-	-	-
12.	Grand Total	5786	792	3000	(13)	102	3881

* Public Utilities include Public Lighting, DJB (11kV), DJB (LT), Railway Traction & DMRC.

1.6 Based on the sales projected for FY 2020-21 and Distribution loss as specified for FY 2020-21 in *DERC Business Plan Regulations, 2019*, the energy requirement has been estimated by BYPL as follows:

Table 3: Energy Requirement for FY 2020-21

Sr. No.	Particulars	Unit	Quantity
A	Energy sales	MU	5786
B	Distribution Loss	%	9.23%*
C	Energy Requirement	MU	6358
D	Distribution Loss	MU	572

*However, Distribution Loss is taken as 9.00% for the computation of revised ARR projections.

- 1.7 The Power Purchase costs from various sources including from short term sources have been summarized as follows:

Table 4: Total Power Purchase Cost for FY 2020-21

Sr. No.	Source	Quantity	Amount	Average Cost
		(MU)	(Rs. Cr.)	(Rs./ kWh)
A	Power Purchase from CSGS	7047	2341	3.32
B	Inter-State Loss & Charges	212	409	
C	Power Available at Delhi Periphery	6836	2750	4.02
D	Power Purchase from SGS	923	674	7.30
E	Intra-State Losses & Charges including SLDC Charges	71	215	
F	Shortfall to be met at DISCOM Periphery	141	57	4.06
G	Total Power available to DISCOM	7828	3696	4.72
I	Sales	5786		
J	Distribution Loss	572		
K	Less: Normative rebate		0*	
L	Required power for the DISCOM	6358	3343	5.26
M	Total Sale of Surplus Power	1470	353	2.40

* Not considered in view of changed circumstances due to COVID--19.

- 1.8 BYPL has computed the normative O&M expenses for FY 2020-21 as follows:

Table 5: O&M Expenses during FY 2020-21

Sr. No.	Assets/lines	Avg. Quantity	Units	Norms	Amount (Rs. Cr.)
1	66 kV lines	245	Rs. Lakh/ Ckt. Km	4.857	12
2	33 kV lines	435			21
3	11 kV lines	2970	Rs. Lakh/ Ckt. Km	2.036	60
4	LT lines system	5611	Rs. Lakh/ Ckt. Km	9.173	515
5	66/11 kV grid sub-station	1915	Rs. Lakh/ Ckt. Km	1.157	22
6	33/11 kV grid sub-station	2087			24
7	11/0.415 kV DT	3550	Rs. Lakh/ Ckt. Km	2.534	90
8	Total				744

- 1.9 In terms of Regulation 11(9) of the Tariff Regulations, 2017 BYPL has submitted the additional O&M expenses estimated during FY 2020 -21 at Rs. 70 Cr.

Table 6: Additional O&M Expenses during FY 2020-21 (Rs. Cr.)

Sr. No.	Particulars	FY 2020-21
1.	Legal Expenses	13
2.	Expenses for raising loan	11
3.	Loss on sale of retired assets	9
4.	Expenses due to Force Majeure Conditions	7
5.	Interest on Additional Working Capital Requirement	30
6.	Additional Expenses beyond the control of Petitioner	70

1.10 The Petitioner has considered the gross capitalisation of Rs. 408 Crore (including consumer contribution for deposit works) during FY 2020-21 as approved by the Commission.

1.11 BYPL has computed the depreciation as follows:

Table 7: Computation of rate of Depreciation for FY 2020-21 (Rs Cr)

Sr. No.	Particulars	Amount
1	Opening GFA for FY 2018-19 as per Audited Accounts	3399
2	Closing GFA for FY 2018-19 as per Audited Accounts	3714
3	Average GFA as per Books of Accounts	3557
4	Revised depreciation computed based on Tariff Regulations 2017	183
5	Average rate of depreciation (%)	5.13%

1.12 The depreciation for FY 2020-21 is calculated as follows:

Table 8: Depreciation for FY 2020-21 (Rs. Cr.)

Sr. No.	Particulars	Amount
A	Opening GFA for FY 2019-20	3744
B	Addition during FY 2019-20	413
C	Opening GFA for FY 2020-21	4157
E	Additions during the year	408
F	Closing GFA	4565
G	Average GFA	4361
H	Less: Average Consumer Contribution	336
I	Average GFA net of CC	4025
J	Average rate of depreciation	5.13%
K	Depreciation for FY 2020-21	207
L	Opening Accumulated Depreciation for FY 20-21	1516
M	Closing Accumulated Depreciation for FY 20-21	1723

1.13 BYPL has computed RoCE for FY 2020-21 as follows:

Table 9: RoCE for FY 2020-21 (Rs. Cr.)

Sr. No.	Particulars	Submission
A	WACC	15.92%
B	RRB (i)	2879
C	RoCE	458

1.14 BYPL has considered the Non-Tariff Income during FY 2020-21 as Rs. 86 Crore.

1.15 The summary of revised ARR for FY 2020-21 as submitted by BYPL is as follows:

Table 10: Aggregate Revenue Requirement for FY 2020-21 (Rs. Cr.)

Sr. No.	Particulars	Amount
A	Power Purchase Cost including Transmission Charges	3343
B	O&M Expenses	744

Sr. No.	Particulars	Amount
C	Additional O&M Expenses	70
D	Depreciation	207
E	Return on Capital Employed (RoCE)	458
F	Less: Non-Tariff income	86
G	Aggregate Revenue Requirement excl. Carrying Cost on RA	4737

1.16 BYPL has submitted the Regulatory Assets till FY 2018-19 as follows:

Table 11: Regulatory Assets till FY 2018-19 (Rs. Cr.)

Sr. No.	Particulars	FY 2018-19
A	RA Creation	
A1	Opening RA for FY 2018-19	2677
A2	Impact of ATE Directions	7136
A3	Past Claims	3889
A4	Revised Opening RA	13702
A5	Revenue Gap during FY 2018-19	116
B	Carrying Cost addition	
B1	Carrying Cost Rate	14%
B2	Carrying Cost	1926
C	RA amortization	
C1	8% Surcharge	382
C2	Carrying Cost	307
D	Closing RA at the end of FY 2018-19	15055

1.17 The Revenue (Gap)/Surplus for FY 2020-21 at existing tariff is as follows:

Table 12: Revenue (Gap)/ Surplus at Existing Tariff for FY 2020-21 (Rs. Cr.)

Sr. No.	Particulars	Amount
A	Revised Aggregate Revenue requirement	4737
B	Revenue available for the year	3585
C	Revenue (Gap)/ Surplus for the year	(1152)