



# U.P. POWER CORPORATION LIMITED

उत्तर प्रदेश पावर कारपोरेशन लिमिटेड

(उ० प्र० सरकार का उपक्रम)

(Govt. of Uttar Pradesh Undertaking)

CIN: U32201UP1999SGC024928

## Regulatory Affairs Unit

15<sup>th</sup> Floor, Shakti Bhawan Extension,

14-Ashok Marg, Lucknow 226001.

Phone: (0522) 2286519

Email: [arrtariffuppcl@gmail.com](mailto:arrtariffuppcl@gmail.com)

रेगुलेटरी अफेयर्स इकाई

15वाँ तल, शक्ति भवन विस्तार,

14-अशोक मार्ग, लखनऊ 226001

दूरभाष : (0522) 2286519

Email: [arrtariffuppcl@gmail.com](mailto:arrtariffuppcl@gmail.com)

No. 466 /RAU/Directives.

Dated: 29 June, 2019

The Secretary,  
U.P. Electricity Regulatory Commission,  
Vidyut Niyamak Bhawan,  
Vibhuti Khand, Gomti Nagar,  
Lucknow.

Sub:- Detailed calculation of DBST as per UPERC Order dt. 12.12.2018.

Sir,

Kindly refer to this office letter no. 364/RAU/Directive dt. 16.05.2019 on the above subject. The revised computation of DBST amongst Discoms on the basis of revised ARR as submitted by letter no. 464/RAU/ARR FY 2019-20 dt. 28.06.2019 is being attached herewith for kind consideration of Hon'ble Commission. Soft copy of the same is being sent through emailed.

Thanking you,

Encl : As above.

Yours faithfully,

(Niraj Agrawal)  
Chief Engineer (RAU)

**Revised DBST Calculation - On the Basis of Proposed Tariff**

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PUVVNL	KESCO	Total
1	Revenue from Tariff including subsidy (Rs. Cr)	A	16388	13658	23754	18173	3036	75008
2	Energy Sales (MU)	B	19,132.10	20,351.19	30,518.13	22,937.59	3,289.58	96,228.58
3	Total Power Purchase Cost excluding Intra state Transmission Charges (In Rs Cr)	C	10730.93	11453.66	17117.19	12923.99	1845.08	54070.84639
4	Intra State Transmission Charges (In Rs Cr)	D	537.95	574.19	613.16	647.90	92.50	2466
5	Purchases Required at Discom Periphery (MU)	E	21692	23153	34601	26125	3730	109300
6	ARR (Rs Cr)	F	15764.72	15534.35	23014.39	18434.46	2453.83	75201.55
7	ABR (Rs/ kWh)	G=(A/B)*10	8.57	6.71	7.78	7.92	9.23	7.79
8	ACoS (Rs/ kWh)	H=(F/B)*10	8.24	7.63	7.54	8.04	7.46	7.81
9	Revenue Gap (surplus) (Rs /Unit)	I=H-G	-0.33	0.92	-0.24	0.11	-1.77	0.02

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PUVVNL	KESCO	Total
1	Purchase at Discom Periphery from Allocated PPAs (MU)	J	4804	4475	8267	4804	329	22679
2	Power Purchase Cost from Allocated PPAs (Rs Cr)	K	2006	1870	3450	2006	136	9468
3	Other costs excluding the power purchase and Intra-state Transmission expenses (Rs Cr)	L	4496	3507	5284	4863	516	18665
4	Allocated PPA Cost per unit of sales (Rs/ kWh)	M=B/K	1.05	0.92	1.13	0.87	0.98	0.98
5	Transmission Charges per unit of sales (Rs/ kWh)	N=D/B	0.28	0.28	0.28	0.28	0.28	0.26
6	Other Cost per unit of sales (Rs/ kWh)	O=L/B	2.35	1.72	1.73	2.12	1.57	1.94

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PUVVNL	KESCO	Total
1	ABR (Rs/ kWh)	G	8.57	6.71	7.78	7.92	9.23	7.79
2	ACoS (Rs/ kWh)	H	1.05	0.92	1.13	0.87	0.41	0.98
3	Allocated PPA Cost per unit of sales (Rs/ kWh)	M	0.28	0.28	0.20	0.28	0.28	0.26
4	Transmission Charges per unit of sales (Rs/ kWh)	N	2.35	1.72	1.73	2.12	1.57	1.94
5	Other Cost per unit of sales (Rs/ kWh)	O	4.89	3.79	4.72	4.65	6.96	4.61
6	Remaining ABR (Rs/ kWh)	P = G - (M + N + O)						4.64
7	Cost of remaining Power (excluding Allocated power cost) per unit of sales (Rs/ kWh)							
8	Remaining ABR as % of Cost of remaining Power (excluding Allocated power cost) per unit of Sales	Q						99.57%
9	Power Purchase Cost excluding Allocated PPAs (In Rs Cr)							44603.01

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PUVVNL	KESCO	Total
1	Remaining ABR (Rs/kWh)	R = P/Q	4.91	3.80	4.74	4.67	6.99	4.64
2	Purchase Required at Discom Periphery from remaining PPAs (MU)	S = E - J	16888	18678	26334	21321	3401	86621
3	Power Purchase Cost excluding Allocated PPAs (In Rs Cr)	T = C - K			44603.01			
4	Cost of remaining Power Purchase Cost excluding Allocated PPAs to be recovered from sales (Rs Cr)	U = R * B/ 10	9389	7741	14470	10703	2301	44603
5	DBST of remaining Power Purchase cost excluding allocated PPAs (Rs/kWh)	V = U/S*10	5.56	4.14	5.49	5.02	6.77	5.15
6	Total Power Purchase Cost (Rs Cr)	W = K + U	11394.70	9610.54	17919.79	12708.92	2436.90	54070.85
7	DBST of Total Power (Rs/kWh)	X = W/E*10	5.25	4.15	5.18	4.86	6.53	4.95

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PUVVNL	KESCO	Total
1	Total Power Purchase Cost (Rs Cr)	W-E*AA	10730.93	11453.66	17117.19	12923.99	1845.08	54070.85
2	Intra-State Transmission Charges (Rs Cr)	D	537.95	574.19	613.16	647.90	92.50	2465.69

*Handwritten signature/initials*



**Revised DBST Calculation - On the Basis of Existing Tariff**

Table 1		Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total	
1	Revenue from Tariff (including subsidy) (Rs Cr)	A		14643	12372	21197	16049	2638	65900	
2	Energy Sales (MU)	B		19,132.10	20,351.19	30,518.13	22,937.59	3,289.58	96,228.58	
Total Power Purchase Cost excluding Intra state Transmission Charges (In Rs Cr)				C	10730.93	14453.66	17117.19	12923.99	1845.08	54070.84639
3	Intra State Transmission Charges (In Rs Cr)	D		537.95	574.19	613.16	647.90	92.50	2466	
4	Purchases Required at Discom Periphery (MU)	E		21692	23153	34601	26125	3730	109300	
5	ARR (Rs Cr)	F		15764.72	15534.35	23014.19	18434.46	2453.83	75201.55	
6	ABR (Rs/KWh)	G=(A/B)*10		7.65	6.08	6.95	7.00	8.02	6.95	
7	ACoS (Rs/KWh)	H=(F/B)*10		8.24	7.63	7.54	8.04	7.46	7.81	
8	Revenue Gap (surplus) (Rs /Unit)	I=H-G		0.59	1.55	0.60	1.04	-0.56	0.86	


Table 2		Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total	
1	Purchase at Discom Periphery from Allocated PPAs (MU)	J		4804	4475	8267	4804	329	22679	
2	Power Purchase Cost from Allocated PPAs (Rs Cr)	K		2006	1870	3450	2006	136	9468	
Other costs excluding the power purchase and Intra-state Transmission expenses (Rs Cr)				L	4496	3507	5284	4863	516	18665
3	Allocated PPA Cost per unit of sales (Rs/ KWh)	M=K/B		1.05	0.92	1.13	0.87	0.41	0.98	
4	Transmission Charges per unit of sales (Rs/ KWh)	N=D/B		0.28	0.28	0.20	0.28	0.28	0.26	
5	Other Cost per unit of sales (Rs/ KWh)	O=L/B		2.35	1.72	1.73	2.12	1.57	1.94	
6	Cost of remaining Power (excluding Allocated power cost) per unit of Sales (Rs/KWh)	P=G - (M+N+O)							4.64	
7	Remaining ABR as % of Cost of remaining Power (excluding Allocated power cost) per unit of Sales	Q							81%	
8	Power Purchase Cost excluding Allocated PPAs (In Rs Cr)								44603.01	

Table 3		Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total
1	ABR (Rs/ kWh)	G		7.65	6.08	6.95	7.00	8.02	6.95
2	ACoS (Rs/ kWh)	H		1.05	0.92	1.13	0.87	0.41	0.98
3	Allocated PPA Cost per unit of sales (Rs/ KWh)	M		0.28	0.28	0.20	0.28	0.28	0.26
4	Transmission Charges per unit of sales (Rs/ KWh)	N		2.35	1.72	1.73	2.12	1.57	1.94
5	Other Cost per unit of sales (Rs/ KWh)	O		3.97	3.16	3.88	3.72	5.75	3.77
6	Remaining ABR (Rs/KWh)	P = G - (M + N + O)							4.64
7	Remaining ABR as % of Cost of remaining Power (excluding Allocated power cost) per unit of Sales	Q							81%
8	Power Purchase Cost excluding Allocated PPAs (In Rs Cr)								44603.01

Table 4		Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total
1	Remaining ABR (Rs/KWh)	R = P/Q		4.88	3.88	4.77	4.57	7.07	4.64
2	Purchase Required at Discom Periphery from remaining PPAs (MU)	S = E - J		16888	18678	26334	21321	3401	86621
3	Power Purchase Cost excluding Allocated PPAs (In Rs Cr)	T = C - K		9342	7890	14561	10484	2326	44603
4	Cost of remaining Power Purchase Cost excluding Allocated PPAs to be recovered from sales (Rs Cr)	U = R * B / 10		5.53	4.22	5.53	4.92	6.84	5.15
5	DBST of remaining Power Purchase cost excluding allocated PPAs (Rs/KWh)	V = U/S*10		11347.97	9760.05	18010.57	12490.05	2462.20	54070.85
6	Total Power Purchase Cost (Rs Cr)	W = K + U		5.23	4.22	5.21	4.78	6.60	4.95
7	DBST of Total Power (Rs/KWh)	X = W/E*10							

Table 5		Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total
1	ARR and Revenue Gap as per BST	W=K*AA		10730.93	11453.66	17117.19	12923.99	1845.08	54070.85
2	Intra-State Transmission Charges (Rs Cr)	D		537.95	574.19	613.16	647.90	92.50	2465.69

*Handwritten signature*

  
**सुनील (अध्यक्ष)**  
 संयोजक/कार्यालय

3	Other costs excluding the power purchase expenses (Rs Cr)	L	4495.83	3506.51	5283.84	4862.57	516.26	18665.02
4	ARR (Rs Cr)	$Y = W + D + L$	15764.72	15534.35	23014.19	18434.46	2453.83	75201.55
5	Revenue including subsidy (Rs Cr)	A	14642.95	12372.15	21197.42	16049.14	2638.01	66899.68
6	Net Revenue Gap/ (Surplus) (Rs Cr)	$Z = Y - A$	1121.77	3162.20	1816.77	2385.31	-184.18	8301.87

Table 6 ARR and Revenue Gap as per DBST

S.No.	Particulars	Formulae	MVVNL	DVVNL	PVVNL	PuVVNL	KESCO	Total
1	Total Power Purchase Cost (Rs Cr)	AB	11347.97	9760.05	18010.57	12490.05	2462.20	54070.85
2	Transmission Charges (Rs Cr)	D	537.95	574.19	613.16	647.90	92.50	2465.69
	Other costs excluding the power purchase and intra-state Transmission expenses (Rs Cr)	L	4495.83	3506.51	5283.84	4862.57	516.26	18665.02
4	ARR (Rs Cr)	$AE = AB + D + L$	16381.76	13840.74	23907.57	18000.52	3070.96	75201.55
5	Revenue including subsidy (Rs Cr)	A	14642.95	12372.15	21197.42	16049.14	2638.01	66899.68
6	Net Revenue Gap/ (Surplus) at existing tariff (Rs Cr)	$AF = AE - A$	1738.81	1468.59	2710.15	1951.38	432.94	8301.87

  
 सुधीर (अप्रोयडर)  
 उपनिष्ठापक