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**Petition for Determination of Pooled Cost of Power Purchase
for FY 2018-19**

**Submitted to
Rajasthan Electricity Regulatory Commission**

**By
JodhpurVidyutVitran Nigam Limited
Jodhpur**

October 2018

BEFORE THE RAJASTHAN ELECTRICITY REGULATORY COMMISSION

JAIPUR, RAJASTHAN

Filing No.:

Case No.:

In the Matter of:

Filing a Petition for determination of pooled cost of power purchase for FY 2018-19 based on the actual accounts for FY 2017-18 as per the Rajasthan Electricity Regulatory Commission (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010.


The Petitioner respectfully submits its petition in the matter as follows:



Superintending Engineer (RA&C)
JODHPUR DISCOM, JODHPUR

Definitions

1. **Distribution Licensee'** means a licensee authorized to operate and maintain a distribution system for supplying electricity to the consumers in his area of supply as defined in the Act
2. **Floor Price:** The minimum price as determined by the Central Electricity Regulatory Commission in accordance with its (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 as amended from time to time, at and above which the certificate can be dealt in the power exchange;
3. **Forbearance Price:** The ceiling price as determined by the Central Electricity Regulatory Commission.
4. **Pooled Cost of Power Purchase:** The weighted average price at which the distribution licensee has purchased the electricity including cost of self-generation, if any, in the previous year from all the energy suppliers, excluding short term power purchases and those based on renewable energy.
5. **Preferential Tariff:** The tariff fixed / approved by the Hon'ble Commission for sale of energy to a distribution licensee from a generating station based on renewable energy sources.
6. **Renewable Energy Sources:** Includes non-conventional renewable generation sources such as mini-hydel, wind, solar including solar component of its integration with combined cycle, bio-mass, bio-fuel cogeneration, urban or municipal waste and other such sources as approved by MNRE, excluding the nuclear power stations and hydel power stations of capacity above 25 MW.


Superntending Engineer (RA&C)
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Introduction

1. In exercise of powers conferred under sections 61, 66, 86(1)(e) and 181 of the Electricity Act, 2003 and all other powers enabling it in this behalf, the Rajasthan Electricity Regulatory Commission framed Rajasthan Electricity Regulatory Commission (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010.
2. As per RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010, and RERC (Power Purchase and Procurement Process of Distribution Licensee) (4thAmendment) Regulations 2017, a Distribution Licensee including deemed licensee shall procure electricity generated from renewable energy sources as provided in following table:

Table 1: RPO expressed as percentage of energy consumption (%)

Sl. No.	Financial Year	Wind	Biomass	Solar	Total *
1.	2018-19	8.75	1.50	6.75	17

Note:* As per RERC (Power Purchase and Procurement Process of Distribution Licensee) (4th Amendment) Regulations 2017 dated 7th June 2017 and Tariff Order for JdVVNL, JVNL, AVNL for FY 2018-19 dated 28.05.2018.

3. As per the RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010, the effective electricity component price during the operating period for a distribution licensee(s) shall be equal to the Pooled cost of Power Purchase, which is the weighted average price at which the distribution licensee has purchased the electricity including cost of self-generation, if any, in the previous year from all the energy suppliers, excluding short term power purchases and those based on renewable energy.
4. JDVVNL is submitting this petition to the Hon'ble Commission for determination of Pooled Cost of Power Purchase for FY 2018-19 based on the audited accounts for FY 2017-18.

(3)

Superintending Engineer (RA&C)
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Pooled Cost

1. As per Clause 11 of the RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010, the tariff rate, tariff structure and other conditions for existing renewable energy projects for which long term PPA for purchase of renewable energy are already put in place, may participate in REC scheme after the expiry of the period of their existing PPA.
2. Provided further that such a generating company having entered into a power purchase agreement for sale of renewable energy at a preferential tariff shall not, in case of pre-mature termination of the agreement, be eligible for participating in the REC scheme for a period of three years from the date of termination of such agreement or till the scheduled date of expiry of PPA whichever is earlier.
3. All the new renewable energy projects commissioned during the Multiyear Control Period, after coming into force of RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010 and which do not have PPA prior to coming into effect of these Regulations for purchase of Renewable Energy shall have the option of either following the tariff structure and other conditions as stipulated in the RERC (Terms and Conditions for Determination of Tariff) Regulations, 2014, subject to agreement of licensee or adopt pricing of the REC mechanism.
4. In case REC mechanism is repealed / expires or RE generator on his own opts out of the REC mechanism, RE generator can switch over to preferential tariff mechanism subject to scope to accommodate the same in the RPO target of the licensee at a tariff to be determined by the Commission and/or sell renewable energy at mutually agreed price to other obligated entities.

Superintending Engineer (RA&C)
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Determination of Pooled cost of Power Purchase for JdVVNL for FY 2018-19

1. The RERC (Renewable Energy Certificate and Renewable Purchase Obligation Compliance Framework) Regulations, 2010 requires the Distribution licensee to purchase renewable energy and/ or renewable energy certificates (RECs) for discharge of the above specific mandatory obligation.
2. The Distribution licensee can purchase the renewable energy and/ or certificate as per REC Mechanism as follows:
 - a. The effective electricity component price shall be equal to the Pooled Cost of Power Purchase.
 - b. The Certificate could be purchased at price discovered in the Power Exchanges.
3. For the determination of Pooled cost of Power Purchase for FY 2018-19, the Discom has considered the power purchase cost and quantum as per the audited accounts for FY 2017-18.
4. Further, while determining the Final Pooled cost of Power Purchase, the Discom has not considered the short-term power purchase and renewable energy, while the power purchased from nuclear power stations, hydel power stations of capacity above 25 MW and thermal component of bundled power purchased through NVVN has been considered.
5. On the basis of power purchase cost and quantum available for FY 2017-18, Pooled cost for FY 2018-19 works out to **Rs. 3.6702 per unit**. The reconciled power purchase statement for FY 2017-18 is attached as **Annexure I**.
6. The detailed computation of Pooled cost of Power Purchase for FY 2018-19 is as follows:

Pooled Power Purchase Cost for JdVVNL for FY 2018-19 based on Actual Accounts of FY 2017-18

S.No.	Power Purchase Station (Source Wise)	Energy Purchased (in MUs)	Power Purchase Cost (in Cr.)			Rate (Rs/kWh)	Weighted Avg Cost per unit (Rs/kWh)
			Fixed Charges	Energy Charges	Total Cost		
A	NTPC						
1	ANTA GTPS	15.2805	13.7710	7.1794	20.9504	13.7106	0.0100
2	AURIYA GTPS	9.0073	9.0944	6.0275	15.1219	16.7886	0.0072
3	DADRI GTPS	43.0450	10.1479	14.3121	24.4600	5.6824	0.0116
4	FGUTTPS -I	31.0238	4.4628	7.5801	12.0429	3.8818	0.0057
5	FGUTTPS -II	56.2552	7.4995	11.1761	18.6756	3.3198	0.0089
6	FGUTPP III	34.8607	6.3580	7.1186	13.4766	3.8658	0.0064
7	FGUTTPS -IV	8.1416	1.6466	1.2158	2.8623	3.5157	0.0014
8	F.S.T.P.S	13.6498	2.0465	4.3182	6.3647	4.6629	0.0030
9	K.H.S.T.P.S. I	32.5883	5.6569	8.2943	13.9512	4.2810	0.0066
10	K.H.S.T.P.S. & II	163.2439	26.2820	37.9697	64.2516	3.9359	0.0306
11	RHIND STPS	238.5395	16.0655	26.6686	42.7342	1.7915	0.0203
12	RIHAND II	260.0032	17.4628	28.4364	45.8991	1.7653	0.0218

Pooled Power Purchase Cost of JODHPUR for FY 2018-19 based on Actual Accounts of FY 2017-18


S.No.	Power Purchase Station (Source Wise)	Energy Purchased (in MUs)		Power Purchase Cost (in Cr.)			Weighted Avg Cost per unit (Rs/kWh)
			Fixed Charges	Energy Charges	Total Cost	Rate (Rs/kWh)	
13	RIHAND III	300.2782	35.0760	33.8817	68.9577	2.2965	0.0328
14	SINGUARLI	660.4912	36.2244	84.9211	121.1455	1.8342	0.0577
15	TALCHAR STPS	0.0000	-1.7879	1.0701	-0.7179	0.0000	0.0000
16	KHPS-I	107.8015	27.7547	28.9207	56.6755	5.2574	0.0270
17	NCTPS 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	NCTPS 2	11.3114	-2.3541	-1.5268	-3.8809	-3.4310	-0.0018
19	NSM-BUNDLED	367.1848	46.2066	85.2011	131.4077	3.5788	0.0625
	TOTAL	2352.705782	261.613438	392.7647	654.3781362	2.7814	0.3114
	Prior Period Expenses	0.0000	-1.2432	4.1473	2.9041	0.0000	0.0000
	Total (with Adjustment)	2352.705782	260.370217	396.91201	657.2822238	2.7937	0.3128
B	NHPC						
1	SALAL	29.0985	2.1483	5.1071	7.2553	2.4934	0.0035
2	TANAKPUR	11.1430	2.7605	1.9383	4.6988	4.2168	0.0022
3	CHAMERA-I	142.2236	12.5437	16.7119	29.2556	2.0570	0.0139
4	URI	64.7964	6.3748	9.5530	15.9279	2.4581	0.0076
5	CHAMERA-II	47.5928	5.1544	5.5671	10.7214	2.2527	0.0051
6	DHAULIGANG	35.3875	5.7232	7.6151	13.3382	3.7692	0.0063
7	DULHASTI	82.0970	21.2600	26.1021	47.3621	5.7690	0.0225
8	URI-II	44.6076	14.1516	14.3578	28.5095	6.3912	0.0136
9	PARBATI III	24.9140	6.3009	6.7904	13.0913	5.2546	0.0062
10	SEWA II	18.1342	4.7036	4.2686	8.9722	4.9477	0.0043
11	CHAMERA-III	37.6037	9.3906	7.9884	17.3790	4.6216	0.0083
	TOTAL	537.598404	90.5116074	105.99978	196.5113829	3.6554	0.0935
	Prior Period Expenses	0.0000	0.0040	0.0070	0.0110	0.0000	0.0000
	Total (with Adjustment)	537.598404	90.5156552	106.00677	196.5224262	3.6556	0.0935
C	NEYVELI LIGNITE CORPORATION LTD						
	Prior period	0.0000	0.0000	-13.0016	-13.0016	0.0000	0.0000
	TOTAL (with adj.)	459.0696	107.7871	41.9050	149.6921	3.2608	0.0712
D	SJVNL-NATHPA-JHAKRI						
	Rampur	174.0906	20.6944	20.8724	41.5668	2.3877	0.0198
	Total	223.4223786	29.9295167	28.88708	58.8165963	2.6325	0.0280
	Prior Period Expenses	0.0000	0.0000	0.0036	0.0036	0.0000	0.0000
	Total (with Adjustment)	223.4223786	29.9295167	28.890635	58.8201514	2.6327	0.0280
E	NPCIL						
E1	NAPP	108.1520	0.0000	34.5564	34.5564	3.1952	0.0164
	Prior Period Expenses	0.0000	0.0000	0.1925	0.1925	0.0000	0.0000

Pooled Power Purchase Cost for JDVYNL for FY 2018-19 based on Actual Accounts of FY 2017-18

S.No.	Power Purchase Station (Source Wise)	Energy Purchased (in MUs)	Power Purchase Cost(in Cr.)			Rate (Rs/kWh)	Weighted Avg Cost per unit (Rs/kWh)
			Fixed Charges	Energy Charges	Total Cost		
	Total (with Adjustment)	108.152019	0	34.748851	34.7488505	3.2130	0.0165
E2	RAPP						
	RAPP-I & II	437.3402	0.0000	152.2421	152.2421	3.4811	0.0725
	RAPP-III&IV	354.5974	0.0000	123.6222	123.6222	3.4863	0.0588
	RAPP-V & VI	205.8577	0.0000	83.3664	83.3664	4.0497	0.0397
	RAPP-V	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	TOTAL (RAPP)	997.795248	0	359.23059	359.2305867	3.6002	0.1710
	Prior Period Expenses	0.0000	0.0000	3.7170	3.7170	0.0000	0.0000
	Total (with Adjustment)	997.795248	0	362.94757	362.9475658	3.6375	0.1727
F	State Generation & Others						
	KTPS(1 to 7)	2049.9401	158.1056	622.7684	780.8740	3.8093	0.3716
	STPS(1 to 6)	1428.1088	268.3104	495.5017	763.8121	5.3484	0.3635
	DCCPP	70.1118	27.3798	30.3853	57.7651	8.2390	0.0275
	CTPP (1&2))	905.3520	154.4515	223.6792	378.1307	4.1766	0.1800
	CTPP (3)	383.9182	75.4699	92.4363	167.9062	4.3735	0.0799
	CTPP (4)	509.3120	83.4432	122.7596	206.2028	4.0487	0.0981
	CTPP (5)	393.9078	0.0000	140.8026	140.8026	3.5745	0.0670
	RGTP(1&2)	118.2553	7.6768	23.7692	31.4460	2.6592	0.0150
	RGTP(3)	325.3023	44.7072	95.6526	140.3598	4.3147	0.0668
	KaTPP#1	1021.6444	272.8704	268.9487	541.8191	5.3034	0.2579
	KaTPP#2	985.1545	244.5965	258.0772	502.6737	5.1025	0.2392
	MAHI	57.2356	15.9629	1.7171	17.6800	3.0890	0.0084
	Others	0.0000	0.0000	32.7488	32.7488	0.0000	0.0000
	GPTPP	-1.6278	0.0000	0.4356	0.4356	-2.6762	0.0002
	RAJWEST POWER LIMITED	1958.2682	412.3762	409.0822	821.4584	4.1948	0.3909
	Total	10204.8833	1765.3505	2818.7646	4584.1150	4.4921	2.1816
	Prior Period Rajwest	0.0000	-178.4321	75.8590	-102.5731	0.0000	0.0000
	Total (with adj.)	10204.8833	1586.9183	2894.6235	4481.5419	4.3916	2.1328
G	Coastal Gujerat						
	Coastal Gujerat	665.4534	66.7061	97.8367	164.5427	2.4726	0.0783
	Prior period	0.0000	0.0000	0.7760	0.7760	0.0000	0.0000
	TOTAL (with adj.)	665.4534	66.7061	98.6126	165.3187	2.4843	0.0787
H	Total Shared Projects/Others						
	Tehri	74.3587	18.8201	20.2722	39.0923	5.0782	0.0180
	Koteshwar	32.7572	6.2328	6.2585	12.4913	3.8133	0.0059
	Total	107.1159	25.0529	26.5307	51.5836	4.6913	0.0239
	Prior Period Expenses	0.0000	0.8381	0.4905	1.3286	0.0000	0.0000
	Total THDC (with Adjustment)	107.1159	25.8909	27.0213	52.9122	4.9397	0.0252

Pooled Power Purchase Cost for JYVNL for FY 2018-19 based on Actual Accounts of FY 2017-18

S.No.	Power Purchase Station (Source Wise)	Energy Purchased (in MUs)		Power Purchase Cost(in Cr.)			Weighted Avg Cost per unit (Rs/kWh)
			Fixed Charges	Energy Charges	Total Cost	Rate (Rs/kWh)	
	TALA THROUGH PTC (BHUTAN)	13.5929	0.0000	2.9361	2.9361	2.1600	0.0014
	Prior Period Expenses	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Total (with Adjustment)	13.5929	0.0000	2.9361	2.9361	2.1600	0.0014
	BBMB(BHAKRA,DEHAR&PONG)	795.2141	0.0000	33.0870	33.0870	0.4161	0.0157
	CHAMBAL/SATPURA	215.8346	0.0000	0.0000	0.0000	0.0000	0.0000
	Total	1011.0487	0.0000	33.0870	33.0870	0.3273	0.0157
I	NVVN Bundled Power (Thermal)	625.8717	69.3835	104.2341	173.6176	2.7740	0.0826
J	ARAVALI POWER CO PVT LTD	1.1223	0.7183	0.4459	1.1642	10.3739	0.0006
	Prior period	0.0000	-0.0534	0.0000	-0.0535	0.0000	0.0000
	TOTAL (with adj.)	1.1223	0.6649	0.4459	1.1108	9.8976	0.0005
K	ADANI POWER RAJASTHAN LIMITED	1607.1252	237.1970	378.1417	615.3387	3.8288	0.2928
	Prior period	0.0000	4.1186	35.5782	39.6968	0.0000	0.0000
	TOTAL (with adj.)	1607.125249	241.315558	413.7199	655.0354	4.0758	0.3117
L	SASAN POWER LTD	761.8534	12.2701	101.2087	113.4788	1.4895	0.0540
	Prior period	0.0000	0.0000	0.6096	0.6096	0.0000	0.0000
	TOTAL (with adj.)	761.853434	12.2701167	101.81823	114.0884	1.4975	0.0543
M	PTC (KARCHAM WANGTOO)	150.0345	27.7767	41.6680	69.4446	4.6286	0.0330
	Prior period	0.0000	0.0000	0.0935	0.0935	0.0000	0.0000
	TOTAL (with adj.)	150.034497	27.7766945	41.761413	69.53810725	4.6348	0.0331
N	PTC (DB)	593.0019	184.3630	103.6820	288.0450	4.8574	0.1371
	Prior period	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	TOTAL (with adj.)	593.001871	184.36296	103.68202	288.0450	4.8574	0.1371
O	PTC (Maruti)	592.3733	111.1589	103.3625	214.5214	3.6214	0.1021
	Prior period	0.0000	0.0000	0.0401	0.0401	0.0000	0.0000
	TOTAL (with adj.)	592.373279	111.158863	103.40264	214.5615	3.6221	0.1021
	Grand Total	21012.2199	2815.0505	4896.7555	7711.8060	3.6702	3.6702


 Superintending Engineer (RA&C)
 JODHPUR DISCOM, JODHPUR

Prayer

In view of the above submission, the Discom prays as under:

1. The Hon'ble Commission to accept this petition as submitted by the Discom
2. The Hon'ble Commission may kindly determine the Pooled cost of Power Purchase for FY 2018-19 as per the Discom's submission and allow Discom to recover pooled cost of power purchase at Rs. **3.6702** per unit.
3. The Hon'ble Commission may kindly condone any inadvertent omission/ errors/ shortcomings and permit the Discom to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date.
4. The Hon'ble Commission pass such further and other orders, as it may deem fit and proper keeping in view the facts and circumstances of the case.

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Superintending Engineer (RA&C)
JODHPUR DISCOM, JODHPUR