



Himachal Baspa Power Company Limited

Karcham-Wangtoo H. E. Project
Sholtu Colony, PO. Tapri - 172104
District Kinnaur (Himachal Pradesh)
Phone : 01786-261253/254/255
Fax : 01786-261258
CIN : U40101HP2014PLC000681
Website : www.jsw.in

Date: 28.5.2018

Central Electricity Regulatory Commission
4th Floor, Chandralok Building
36 Janpath, New Delhi 110001

Sub: Seeking of information from central generating companies, joint ventures companies, independent power producers and central/inter-state transmission companies whose tariff is being regulated by CERC and for the purpose of formulating terms and conditions of tariff for the tariff period starting from 1.4.2019.

Ref: CERC order dated 10.11.2017 & 2.05.2018 on the subject and our letter dated 15.05.2018 for extension of time to submit the desired data

Dear Sir

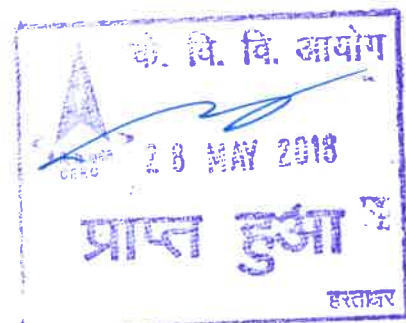
In reference to above, please find attached the information in the desired formats in respect of 1000 MW KarchamWangtoo HEP (KWHEP) of the Himachal Baspa Power Company Limited.

Kindly note that Formats I, II, V-A, V-B, V-C, VI-B (I)/(II)/(III), VI-C, VI-D, IX, X, XI, XII-A, XII-B, XII-C, XIII-A, XIII-B, XIII-C, XIV, XV, XVI, XVI-A, XVII, XVIII are not applicable to KWHEP.

Kindly acknowledge the same.

For Himachal Baspa Power Company Limited

(Authorised Signatory)



Corporate Office :JSW Centre,
BandraKurla Complex, Bandra (E),
Mumbai – 400 051.
Ph. : 022 - 4286 1000



Part of O.P. Jindal Group

**Pro-forma for furnishing Actual annual performance/operational data for the Hydro Electric generating stations
for the 5-year period from 2012-13 to 2016-17**

Sl.no.	Particulars	Units	2012-13	2013-14	2014-15	2015-16	2016-17
1	Name of the company		JPVL	JPVL	JPVL	HBPCL	HBPCL
2	Name of Station		KWHEP	KWHEP	KWHEP	KWHEP	KWHEP
3	Installed Capacity and Configuration	(MW)	1000 MW (250x4)	1000 MW (250x4)	1000 MW (250x4)	1000 MW (250x4)	1000 MW (250x4)
4	Station Location	Under ground or surface	Under ground	Under ground	Under ground	Under ground	Under ground
5	Type of Excitation System		Static	Static	Static	Static	Static
6	Live Storage Capacity	(Million cubic)	NA [^]	NA [^]	NA [^]	NA [^]	3.93
7	Rated Head	Meters	269.15	269.15	269.15	269.15	269.15
8	Head at Full Reservoir Level (FRL)	Meters	279.18	279.18	279.18	279.18	279.18
9	Head at Minimum Draw down Level (MDDL)	Meters	268.18	268.18	268.18	268.18	268.18
10	MW Capability at FRL	MW	1000	1000	1000	1000	1000
11	MW Capability at MDDL	MW	1000	1000	1000	1000	1000
12	Cost of spares:						
12.1	Cost of spares capitalized in books of accounts	(Rs. Lakhs)	-	-	-	-	-
12.2	Cost of spares included in the capital cost for the purpose of tariff #	(Rs. Lakhs)	-	-	185.36	185.36	185.36
13	Generation :						
13.1	Actual Gross Generation at Generator Terminals	(MU)	4056.79	4653.24	4240.26	4726.24	4372.37
13.2	Actual Net Generation EX-bus including free power	(MU)	4024.74	4609.39	4214.11	4696.32	4343.86
13.3	Scheduled Generation EX-bus including free power	(MU)	4019.00	4613.00	4202.00	4638.10	4455.00
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	0.19	0.19	0.20	0.20	0.21
15	Actual Energy Supplied to Colony from the station		-	-	-	-	-
16	Average Declared Capacity (DC) during the year	(MW)	1188	1188	1188	1188	988
17	Weighted Average Duration of outages (Unit-wise details)		09:33Hrs	10:53Hrs	04:04Hrs	0.082638889	11:22Hrs
17.1	Scheduled Outages	(Days)	196day	195day	99day	149day	114day
17.2	Forced Outages	(Days)	332:13Hrs	654:53Hrs	167:52Hrs	330:51Hrs	404:56hrs
18	Cost of spares actually consumed	(Rs. Lakhs)	1,288.17	1,463.72	1,001.79	1,465.07	1,205.91
19	Average Stock of spares	(Rs. Lakhs)	313.85	700.57	897.10	1,054.30	886.50
20	List of beneficiaries/ customers						
	UPPCL through PTC India Ltd	MW	-	-	* 200	200	200
	RDPPC through PTC India Ltd	MW	-	-	* 104	104	104
	HPPC through PTC India Ltd	MW	-	-	* 200	200	200
	Short term through IEX	MW	880	880	* 376	376	376
	Free Power to GoHP	MW	120	120	120	120	120

* Power supply to long term customers through PTC India Ltd. started from 1.5.2014 HPPC, 1.6.2014 UPPCL & 1.10.2014 RDPPC

\$ Power supply to HPPC increased from 200 MW to 376 MW effective from 1.1.2018 and accordingly short term power reduced from 376 MW to 200 MW

Cost of spares included in the capital cost for the purpose of tariff for 2014-19, as per tariff order dt. 30.3.17 approved by CERC

^ Reservoir survey was not carried out on those years

Month wise Design Energy					
Month	Period	Design Energy as Approved by CEA (MU)	Month	Period	Design Energy as Approved by CEA (MU)
April	1-10	57.81	October	1-10	65.1
	11-20	62.47		11-20	45.55
	21-30	117.34		21-31	39.72
May	1-10	159.71	November	1-10	33.66
	11-20	167.3		11-20	38.26
	21-31	250.8		21-30	59.66
June	1-10	158.28	December	1-10	54.58
	11-20	228		11-20	51.23
	21-30	228		21-31	51.82
July	1-10	228	January	1-10	43.7
	11-20	228		11-20	41.07
	21-31	250.8		21-31	42.02
August	1-10	228	February	1-10	37.49
	11-20	228		11-20	36.71
	21-31	250.8		21-28	29.75
September	1-10	203.7	March	1-10	39.94
	11-20	172.14		11-20	45.26
	21-30	103.23		21-31	53.15
Total					4130.98



PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company: Himachal Baspa Power Company Limited

Name of Generating Station: Karcham Wangtoo HEP

Installed Capacity (MW): 1000 MW

Normative Annual Plant Availability Factor (%) approved by Commission: 90%

Plant Availability Factor Achieved (%)

Month	2012-13	2013-14	2014-15	2015-16	2016-17	Reasons for shortfall in PAF achieved vis-a-vis NAPAF
April	99.72	100.00	100.00	100.00	100.00	No Shortfall against 90% NAPAF
May	100.00	100.00	100.00	100.00	100.00	do
June	99.79	99.79	95.80	100.00	100.00	do
July	99.49	99.79	100.00	99.63	99.97	do
August	97.26	97.60	100.00	100.00	99.97	do
September	99.75	100.00	100.00	100.00	99.96	do
October	100.00	99.95	100.00	100.00	100.00	do
November	100.00	100.00	100.00	100.00	100.00	do
December	65.26	100.00	100.00	100.00	100.00	surge shaft maintenance
January	-	100.00	100.00	100.00	100.00	surge shaft maintenance
February	72.69	100.00	100.00	100.00	100.00	surge shaft maintenance
March	100.00	100.00	100.00	100.00	76.25	annual maintenance
Annual	86.12	99.76	99.65	99.97	97.97	

Plant Load Factor Achieved (%)

Month	2012-13	2013-14	2014-15	2015-16	2016-17	Reasons for shortfall in PLF achieved vis-a-vis Target PLF
April	30.02	34.18	21.86	31.20	21.82	low river inflow
May	50.75	81.60	55.74	92.00	75.27	low river inflow
June	93.44	99.24	96.60	108.72	108.05	low river inflow and high silt
July	116.67	116.11	119.93	113.47	106.32	low river inflow and high silt
August	96.78	111.18	109.57	109.69	97.82	low river inflow and high silt
September	77.10	69.71	60.87	69.32	73.00	low river inflow and high silt
October	29.98	35.40	31.69	32.37	34.35	low river inflow
November	20.73	23.55	20.72	23.75	20.55	low river inflow
December	11.42	17.72	16.33	17.79	15.99	low river inflow
January	-	15.31	13.93	15.08	13.64	low river inflow
February	9.73	14.11	13.35	15.22	14.20	low river inflow
March	16.72	16.01	17.09	15.64	15.25	low river inflow
Annual	46.31	53.11	48.40	53.95	49.91	low river inflow



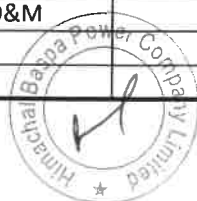
DETAILS OF OPERATION AND MAINTENANCE EXPENSES (To be filled by each Hydro Generating Station)

Name of the Generating Company: HIMACHAL BASPA POWER COMPANY LIMITED

Name of the Hydro-Electric Station -Karcham Wangtoo HEP

(Rs. In Lakhs)

Sl.No.	ITEM	2012-13	2013-14	2014-15	2015-16	2016-17
(A)	Breakup of O&M expenses					
1	Consumption of Stores and Spares	1,288.17	1,463.72	1,001.79	1,465.07	1,205.91
2	Repair and Maintenance					
2.1	For Dam , Intake, WCS, De-silting chamber	46.27	146.41	119.32	102.56	253.88
2.2	For Power House and all other works	717.63	1,091.62	908.99	1,276.22	1,111.02
	Sub-Total (Repair and Maintenance)	763.90	1,238.03	1,028.31	1,378.78	1,364.90
3	Insurance	1,217.28	1,488.89	1,595.90	1,629.87	1,650.11
4	Security	41.41	120.73	115.41	126.04	138.86
5	Administrative Expenses:					
5.1	- Rent	9.88	5.58	3.95	158.68	137.58
5.2	- Electricity Charges	861.52	478.37	503.25	428.08	336.71
5.3	- Traveling and conveyance	62.65	74.65	76.10	60.83	49.00
5.4	- Communication	3.65	7.18	7.51	5.62	6.28
5.5	- Advertising	39.93	6.12	35.06	2.32	1.65
5.6	-Donations	-	-	-	-	-
5.7	-Entertainment					
	Sub-Total (Administrative Expenses)	977.63	571.91	625.86	655.53	531.22
6	Employee Cost					
6.1	-Salaries, wages and allowances	1,894.24	2,840.07	2,450.80	2,392.93	2,877.18
6.2	-Staff welfare expenses	-	108.63	119.49	150.20	230.01
6.3	-Productivity linked Incentive	17.55	97.63	60.31	119.41	97.26
6.4	- Expenditure on VRS					
6.5	-Ex-gratia	-	-	-	0.60	8.44
6.6	-Performance related pay (PRP)					
	Sub-Total (Employee Cost)	1,911.79	3,046.32	2,630.61	2,663.13	3,212.89
7	Loss of store					
8	Provisions					
9	Allocation Corporate office expenses					
10	Others Expenses (Specify items)					
	Rates and taxes	26.29	120.18	51.99	52.99	31.40
	Legal and Professional Charges	339.76	281.39	367.69	241.17	167.94
	Printing & Stationery	22.90	18.81	13.13	24.88	3.82
	Cash Discount	1,896.67	1,582.41	917.87	1,167.73	653.72
	Open Access Charges	13,369.46	21,482.66	11,824.92	6,386.62	6,166.00
	General expenses	239.97	411.19	486.85	205.71	420.89
11	Total (1 to 10)	22,095.23	31,826.24	20,660.33	15,997.52	15,547.66
12	Revenue/ Recoveries, if any					
13	Net Expenses	22,095.23	31,826.24	20,660.33	15,997.52	15,547.66
14	Capital spares consumed not included in (A) (1) above and not claimed /allowed by Commission for capitalisation.					
15	Number of employees:	329	870	850	687	708
15.1	Executives	48	160	162	117	137
15.2	Non- Executives	281	710	688	570	571
15.3	Corporate Office	-	-	-	-	-
16	Man-MW ratio (Man/MW)	0.33	0.87	0.85	0.69	0.71
16.1	Number of employees deployed in O&M	21	119	115	125	224
16.2	Executives	8	39	37	42	68
16.3	Non Executives	13	80	78	83	156

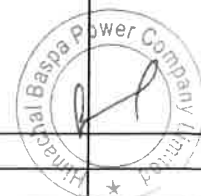


DETAILS OF O & M EXPENSES (At Corporate Level/Regional Level)

Name of the Company: Himachal Baspa Power Company Limited

(Rs. In Lakhs)

Sl.No.	ITEM	Unit	2012-13	2013-14	2014-15	2015-16	2016-17
(A)	Breakup of corporate expenses (Aggregate at Company level)						
1	- Employee expenses:						
1.1	-Salaries, wages and allowances						
1.2	-Staff welfare expenses						
1.3	-Productivity linked incentive						
1.4	- Expenditure on VRS						
1.5	-Ex-gratia						
1.6	-Performance related pay(PRP)						
2	Administrative Expenses:						
2.1	- Repair and maintenance			N.A.			
2.2	- Training and Recruitment						
2.3	- Communication						
2.4	- Traveling & Conveyance						
2.5	- Rent						
2.6	- Others (Specify items)						
	Rates and taxes						
	Legal and Professional Charges						
	Printing & Stationery						
	General expenses						
	Insurance						
	Electricity charges						
	Advertisement						
	Consumption of Stores and Spares						
	Sub - Total (Administrative)		-	-	-	-	-
3	Security						
4	Donations						
5	Provisions						
6	Others (specify items)						
	Cash Discount						
	Open Access Charges						
7	Total (1 to 6)		-	-	-	-	-
8	Less recoveries (if any)						
9	Net Corporate Expenses (Aggregate)		-	-	-	-	-
(B)	Allocation of Corporate Expenses to						
1	Power Generation/Transmission O&M						
2	Project management/Projects under Construction						
3	RLDC and ULDC						
4	Consultancy Business						
5	Telecommunication Business						
6	Any other						
	Note: Heads indicated above are illustrative. Generating companies or the transmission utilities may furnish the allocations in different functional activities suited to their company.						
(C)	Allocation of Corporate Expenses relating to functional activity of power Generation or the transmission to various generating stations or the transmission region/systems as the case may be.						
1	Generating station 1 / Transmission Region 1						
2	Generating station 2 / Transmission Region 2						





Name of the Utility: Himachal Baspa Power Company Limited
Name of the Generating Station: Karcham Wangtoo HEP
Station/Stage/Unit: Karcham Wangtoo HEP
Fuel type: Coal/Lignite/Gas/Liquid Fuel/Nuclear/Hydro): Hydro
Capacity of Plant (MW): 1000 MW
COD: 13-09-2011

Sl.no.	Particulars	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Plant Availability Factor (PAF) (%)								99.04	86.12	99.76	99.65	99.97	97.97
2	Plant Load Factors (PLF) (%)								41.02	46.31	53.11	48.40	53.95	49.91
3	Scheduled Energy (MU)								2,422.53	4,019.00	4,613.00	4,202.00	4,638.10	4,455.00
4	Scheduled Generation (MU)								2,446.33	4,024.74	4,509.39	4,214.11	4,696.32	4,343.86
5	Actual Generation (MU)								2,463.84	4,056.79	4,653.24	4,240.26	4,726.24	4,372.37
7 to 19		Not applicable												
20	Debt at the end of the year (Rs. Crore)	3,28,461												
21	Equity (Rs. Crore)	1,93,422												
22	Working Capital (Rs. Crore) - finally admitted by CERC	26,191												
23	Capital cost (Rs. Crore) - finally admitted by CERC	6,44,741												
24	Capacity Charges/ Annual Fixed Cost (AFC)													
	(a) Return on equity - pre tax (admitted by CERC)	40.107												
	Absolute value	16.50%												
	Rate (%)	43.724												
	(b) Interest on loan	12.78%												
	Absolute value													
	Rate (%)													
	(c) Depreciation (finally allowed by CERC)	33.167												
	Absolute value	5.18%												
	Rate (%)													
	(d) Interest on working Capital													
	Absolute value													
	Rate (%)													
	(e) Operation and maintenance cost finally admitted by CERC)													
	Absolute value	15,253												
	Rate (%)													
	(f) Compensation Allowances													
	AFC (Rs./ kWh) finally admitted by CERC	1,35,789												
25	Energy Charge (Rs./kWh)	1.89												
26	Total tariff (Rs./kWh)	3.78												
27	Revenue realisation before tax (Rs. Crore)	1,468												
28	Revenue realisation after tax (Rs. Crore)	Refer Note iii below												
29	Profit/ loss (Rs. Crore)	394												
30	DSM Generation (MU)													
31	DSM Rate (Ps/kwh)													
32	Revenue from DSM (Rs. Crore)													
33														

Not Applicable
First Tariff of Karcham Wangtoo approved for the cycle 2015-19, therefore information prior to 2014-15 is not available.

Note:

- i) Debt at the year end, equity, interest on loan and interest on working capital is as finally admitted by Hon'ble CERC vide its order dated 30.3.2017
- ii) Revenue before tax for 2015-16 is 5 months under JPVL and 7 months under HBPLC, as Karcham wangtoo HEP got demerged from JPVL and became part of HBPLC wef 1.9.15
- iii) Revenue after tax can not be arrived as per accounting practices, since only profit / loss can be either before tax or after tax.
- iv) Profit / (loss) at point no. 30 is profit before tax (PBT).