S. No.	Plant	Agreement on (Tenure)	Estimated Cost (in Cr)	Actual Expenditure (in Cr) as per audited accounts	SCOD	Contract Period (months)	Date of Commissioni ng	Time overrun (in Years)	Reason of Cost over-run time over-run
									Corporation, Japan. All the major
									equipment was imported from
									Japan. Transportation of heavy
									equipment to the site was a big
									issue. There were virtually no
									roads for bringing these
									equipments to site. There were
									no suitable culverts/bridges in
									between Bettiah to work site as
									such separate pathways were
									constructed for transportation of
									heavy equipment which resulted
									in considerable time over run.
									d) The project was to be funded by
									Govt. of Bihar, however during
									execution of project, the flow of
									fund stopped. BHPC took loan
									from PFC to complete the
									project.

- 8.4. The cost per MW of 5 plants (Agnoor, Dhelabagh, Jainagara, Nasriganj& Triveni) is comparatively high owing to cost overrun, low capacity (in the range of 1-3 MW) whereas for the 3 plants (Valmikinagar, Dehri On Sone &Barun) have a comparatively high capacity range (range of 3 to 15 MW) and hence have a comparatively lower cost per MW.
- 8.5. The average cost of the first five plants is also higher because these plants faced cost overrun.
- 8.6. The detailed cost break-up is given in Annexure.

9. Case of KosiKataiya plant

9.1. Koshi-Kataiya plant was commissioned on 1970-75. The plant was handed over to BHPC in the year 2003 which also marked the ending of useful life of plant (i.e. 35 years of operation). Hence, the work of residual life assessment was assigned to AHEC, Roorkee of Koshi-Kataiya plant on July 2005 by BHPC. AHEC, Roorkee submitted the report on Dec 2006 with the recommendation for major R&M works of units to increase the useful life of plant. On the basis of the recommendation of AHEC, Roorkee, the matter was placed before the Govt. of Bihar and government sanctioned INR 35 crores and released INR 32.84 crores for R&M work in the year 2007. Based on the recommendation, BHPC invited the tender for R&M work which was awarded in the year November 2010. Considering increased useful life of plant due to R&M work, we have included this project

in our revised petition.

9.2. The claim for Interest on Ioan and O&M expense is made because operation & maintenance was done. O&M is required even if the plan is in shutdown mode for safety reasons along with regular maintenance which is critical for its future performance.

10. Cost breakup

- 10.1. The cost breakup of each project is tabulated below. It defines the sources of fund in the construction of plants.
- 10.2. This table also justify the equation of –

Gross Fixed Assets (GFA) = Equity + Grant + Loan & Interest

Table 3: Cost break-up of BHPC plants

SI. No.	Name of projects	ne of projects Equity Grant		Loan and Interest	GFA
1	Dhelabagh	0	121.87	996.98	1,118.84
2	Nasriganj	0	112.50	874.00	986.5
3	Triveni	0	150.00	2,255.12	2,405.12
4	Jainagara	0	122.50	940.90	1,063.40
5	Barun	1,240.84	0	261.27	1,502.10
6	KosiKataiya	0	0	0	0
7	Valmikinagar	5,312.56	0	415.78	5,728.33
8	Dehri-On-sone	1,018.77	0	2,310.40	3,329.17
9	Agnoor	0	0	1,961.10	1,961.10
	Total	7,572.17	506.87	10,015.54	18,094.56

*All values are in INR Lakhs

10.3. As mentioned in the table above, funds sources are NABARD loan, PFC loan and MNRE Grant and GoB loan. GoB loan was received on consolidated basis (not plant-wise) and hence plant-wise segregation is not given in above table.

D. Scope of the present petition

11. Scope

- 11.1. This petition is for truing-up of ARR and finalization of provisional tariff as approved by the Hon'ble Commission vide its order dated 22nd Dec 2009 for the year 2009-10.
- 11.2. This petition has been filed considering:
 - a. BERC (Terms and conditions for determination of Tariff) Regulations, 2007
 - b. Provisional Tariff order for FY 2009-10 issued by Hon'ble Commission passed on 22nd Dec 2009 in reference to case no. TP-01 of 2009,and
 - c. Statutory Audited annual accounts up to FY 2009-10.

E. True-up for FY 2009-10

12. Regulatory context

- 12.1. The true-up exercise is to be adopted as per the clause 22 'Review and Truing up' of Tariff regulation, 2007. Hon'ble Commission shall undertake this exercise based on final actual figures as per the audited accounts.
- 12.2. The following section covers the calculation of all the parameter of annual fixed charge. As per clause 54 of Tariff regulation, 2007, it comprises of –
 - a. Return on equity
 - b. Interest on capital/loan
 - c. Depreciation, including Advance Against Depreciation
 - d. Operation & Maintenance expenses
 - e. Interest on Working capital

13. Return on Equity (RoE)

- 13.1. As per clause no. 55 (3) of Tariff regulation, 2007, RoE shall be computed on the equity base @14% per annum.
- 13.2. The petitioner would like to submit that it didn't claim any RoE in the last submitted ARR for FY 2009-10 and hence the same was not considered by the Hon'ble Commission in its order of the same which needs to be revised.
- 13.3. For the calculation of equity proportion, it is considered as 30% of GFA value (as given in Table-3). Then, RoE is calculated by considering @14% return.

S. No.	Plants name	GFA	Equity base (@30% of GFA)	RoE (@14% of Equity)
1	Agnoor	1961.10	588.33	82.37
2	Barun	1502.11	450.63	63.09

Table 4: Plant-wise RoE calculation

S. No.	Plants name	GFA	Equity base (@30% of GFA)	RoE (@14% of Equity)
3	Dehri-on-Sone	3329.17	998.75	139.83
4	Dhelabagh	1118.85	335.66	46.99
5	Jainagara	1063.40	319.02	44.66
6	Koshi-Kataiya	0.00	0.00	0.00
7	Nasriganj	986.50	295.95	41.43
8	Triveni	2405.12	721.54	101.02
9	Valmikinagar	5728.34	1718.50	240.59
	Total	18094.59	5428.38	759.97

*All values are in INR Lakhs

13.4. We request the hon'ble Commission to approve the RoE of INR 759.97 Lakhs.

14. Interest on capital/loans

14.1. Interest calculation includes the following components -

- a. 'Opening loan' which is taken from the column of 'Interest & loan' of Table-3
- b. Loans during year is kept as null as no addition was there
- c. Repayment is considered to be equal to depreciation on normative basis whereas 'depreciation' is considered on actual basis as arrived in Audited accounts of FY 2009-10.
- d. Interest rate is calculated on average basis of all the loans
- 14.2. The calculation of interest on loan considering abovementioned parameters is tabulated below.

S. No.	Plant name	Opening Ioan	(+) Loans during year	(-) Repayment	Net closing balance	Average	Interest rate	Interest expense
(A)	(B)	(C)	(D)	(E)	(F) = (C) + (D) - (E)	(G) = (C + F)/2	(H)	(I) = (G) X (H)
1	Agnoor	996.98	0	70.15	926.82	961.90	12%	115.43
2	Barun	261.27	0	53.71	207.56	234.41	12%	28.13
	Dehri-on-							
3	Sone	2,310.40	0	120.58	2,189.82	2,250.11	12%	270.01
4	Dhelabagh	996.98	0	38.04	958.93	977.96	12%	117.35
5	Jainagara	940.90	0	36.13	904.77	922.83	12%	110.74
6	Koshi-Kataiya	0.00	0	0.00	0.00	0.00	12%	0.00
7	Nasriganj	874.00	0	33.54	840.46	857.23	12%	102.87
8	Triveni	2,255.12	0	79.96	2,175.16	2,215.14	12%	265.82
9	Valmikinagar	415.78	0	234.04	181.73	298.75	12%	35.85
	Total	9,051.41	0	666.16	8,385.25	8,718.33		1,046.20

Table 5: Interest on loan calculation

14.3. We request the Hon'ble Commission to approve Interest on Ioan of INR 1,046.20 Lakhs.15. Depreciation

15.1. The value of depreciation is considered on actual basis and taken from Annual Audited accounts of FY 2009-10. It is tabulated below for reference.

S. No.	Plant name	Depreciation			
1	Agnoor	70.15			
2	Barun	53.71			
3	Dehri-on-Sone	120.58			
4	Dhelabagh	38.04			
5	Jainagara	36.13			
6	Koshi-Kataiya	0.00			
7	Nasriganj	33.54			
8	Triveni	79.96			
9	Valmikinagar	234.04			
	Total	666.16			
		* All values are in IND Lakks			

Table 6: Depreciation value for plants

*All values are in INR Lakhs

15.2. We request the Hon'ble Commission to approve depreciation of INR 666.16 Lakhs.

16. Operation & Maintenance (O&M) expenses

16.1. The value of O&M expense is considered on actual basis and taken from Annual Audited accounts of FY 2009-10. It is tabulated below for reference.

S. No.	Plants name	O&M expense
1	Agnoor	42.39
2	Barun	79.90
3	Dehri-on-Sone	146.34
4	Dhelabagh	26.36
5	Jainagara	6.13
6	Koshi-Kataiya	109.17
7	Nasriganj	14.99
8	Triveni	45.51
9	Valmikinagar	172.29
	Total	643.08

Table 7: O&M expenses of plants

*All values are in INR Lakhs

16.2. The detailed break-up of O&M expense is given below.

S. No.	Particulars	Agnoor	Barun	Dehri-on- sone	Dhelabagh	Jainagara	Nasriganj	Koshi- Kataiya	Triveni	Valmikinagar	Total
1	Operation & Maintenance of P.H.	12,57,865	28,64,662	40,17,129	19,88,352	0	5,58,306	30,74,333	27,00,000	51,60,000	2,16,20,647
2	Repair & Maintenance of Powerhouse	3,84,982	4,91,159	11,95,204	1,33,987		1,05,370	6,96,017		42,70,160	72,76,879
3	Administrative & Management										
	Salary & Allowance - Managing Director/Chairman										0
	Salary & Allowance	18,59,078	37,22,708	68,30,373	1,07,289	66,248	5,86,633	47,02,540	2,34,290	46,47,178	2,27,56,337
	Gratuity Premium under L.I.C. Scheme										0
	Provident Fund administrative Charges										0
	Uniform & Liveries		4,728	-1,906						0	2,822
	Reimbursement of Medical & Edu. Exps.	9,825	11,662	1,33,296				2,400		0	1,57,183
	Account Computerisation										0

S. No.	Particulars	Agnoor	Barun	Dehri-on-	Dhelabagh	Jainagara	Nasriganj	Koshi-	Triveni	Valmikinagar	Total
5. NO.	Particulars	Agilool	Darun	sone	Difetabagii	Jamagara	INASIIgalij	Kataiya	mvem	VaiiiiKiilagai	TOLAT
	Rent			25,000			39,000	39,000		30,000	1,33,000
	Electricity	0	24,024	2,89,350				1,492		4,76,278	7,91,144
	Travelling & Conveyance	39,808	39,759	1,17,382				1,28,476	0	94,718	4,20,143
	Petrol, Oil & Lubricants	2,37,636	3,32,161	6,00,985	1,03,950	1,50,000	1,127	1,92,512		3,93,903	20,12,273
	Insurance										0
	Advertisement for Tender/other		0	1,05,200	2,75,000			0		14,480	3,94,680
	Telephone & Telex Charges	4,971	6,638	58,172	0		0	23,823		33,677	1,27,281
	Internet Expenses										0
	Printing & Stationary	1,805	5,219	50,052			105	7,397		13,158	77,736
	Postage		0	258			30	564		2,612	3,464
	Conference and Seminar										0
	Bank Charge		8,796	28,467	0		0	4,061	2,783	20,350	64,457
	Repairs - Vehicle	0	0	6,298	0		0	0	0	11,729	18,027
	Repairs - Building	13,045	1,63,900	1,85,448	0		0	9,33,354	0	13,86,431	26,82,178
	Repairs - Plant	0	53,112	1,02,377	0		1,03,950	2,43,744	0	0	5,03,183
	Repairs - Other	0	31,449	37,631	0		1,027	13,292	0	10,247	93,646
	Road Tax										0
	Hire & Rental Charges	1,26,050	1,44,212	5,67,852				1,51,220	2,55,500	17,460	12,62,294
	Licence & Registration Fee	0	4,500	5,500	0		0	7,500	0		17,500

S. No.	Particulars	Agnoor	Barun	Dehri-on- sone	Dhelabagh	Jainagara	Nasriganj	Koshi- Kataiya	Triveni	Valmikinagar	Total
	Consultancy										
	Charges/ Legal Expenses	2,60,512	0	18,000	26,250	1,03,460	48,310	5,36,698	6,96,662	4,79,806	21,69,698
	D.P.R Expenses							0			0
	Statutory Auditors Fee										0
	Internal Auditors Fee										0
	Tax Audit Fees										0
	Entertainment	1,140	41,754	1,08,519	900		3,640	9,065		1,15,707	2,80,725
	Survey & Investigation										0
	News Paper	3,253	2,842	826			228	1,752		1,710	10,611
	Transportation Charges		1,920	6,802		4,812	16,406	16,830			46,770
	Grant for Purchase of Computer										0
	Donation & Contribution							81,909		10,000	91,909
	Capital Maintenance of Powerhouse w/o										0
	Plantation			13,750				0		7,000	20,750
	Testing & Commissioning					2,87,178			6,61,800		9,48,978
	Miscellaneous Expenses	39,488	35,065	1,31,801		1,610	34,431	49,029		32,567	3,23,991