

Form 01 – Plant Characteristic

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Details	Unit-2	Unit-3	Unit-4	Unit-5
1	Rate capacity	62.5	62.5	62.5	60.0
2	Date of synchronization	1967	1968	1968	1971
3	Capacity at the date of synchronization	62.5	62.5	62.5	60.0
4	Date of entry into commercial operation	1.1.1968	1.3.1968	30.4.1968	1.1.1974
5	Date of stabilization				
6	Capacity at the date of stabilization	62.5	62.5	62.5	60.0
7	Has any performance test been performed	Yes	Yes	Yes	Yes
8	If yes, capacity at test				
9	Type of cooling system for condenser	Once through open cycle			
10	Type of Boiler Feed Pump	Motor Driven			
11	Type of cooling system for electric generator	Hydrogen Gas Cooled			Air cooled
12	Any other special feature				
13	Fuel Type	Pulverized Coal			
14	Basic characteristics of the plant	Conventional Steam Cycle			

(PETITIONER)

Form 02 – Statement of Project Cost upto COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Break Down Details		Cost in Rs. Crores	
			As per original approval	As in completed cost on COD
1	Cost of Land, Works, Plant & Equipment & services			
2	Land & Preliminary Investigation			
3	Site development			
4	Steam Generator Island			
5	Turbine Generator Island			
6	BOP Mechanical			
7	BOP Electrical & C&I			
8	External water supply system			
9	External coal transportation system			
10	Rolling Stock and Locomotives			
11	Ash disposal Plant & Equipment			
12	Initial spares			
13	Civil Works			
14	Ash disposal area development			
15	Township & Colony			
16	Temp. construction & enabling works			
17	Erection Testing and commissioning			
18	Procurement & Management fee			
19	Installation & Engineering			
20	Estab./Construction supervision			
21	Operator's Training			
22	Construction Insurance			
23	Tools & Plant			
24	Access and diversion Road			
25	Operators training			
26	Start up fuel			
27	Shared Facilities Costs			
28	Taxes and Duties			
29	Custom Duty			
30	Other Taxes & Duties			
31	Overheads			
32	Development expenses			
33	Legal fee etc.			
34	Establishment			
35	Owners Engg. Expenses			
36	Pre-operative expenses			
37	Audit & Accounts			
38	Contingency			

39	Project cost without IDC & FC			
40	IDC & FC4			
41	Project cost including IDC & FC			Rs.57.44 Cr. *
42	Working Capital Margin			Rs.76.17 Cr.

- This figure has been taken as on 1.7.2002 i.e. the date of unbundling of DVB.
It is a tentative figure and subject to finalisation by the chartered Accountant Firm.

(PETITIONER)

Form 03 – Financial Package upto COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

Description : Financial package upto COD

	Financial Package as Approved		Financial Package as on COD	
	Currency and Amount		Currency and Amount	
Loan-I	From Holding Company		INR	Rs.22.47 Cr. *
Loan-II				
Loan-III				
Equity-				
Foreign				
Domestic			INR	Rs.14.99 Cr.
Total Equity				Rs.14.99 Cr.

* The date of unbundling of DVB i.e. 1.7.02 has been taken as COD.

** The above figures have been allocated on the basis of gross fixed assets and these are tentative only.

(PETITIONER)

Form 04 – Additional Capitalisation after COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Year	Work/Equipment added after COD	Amount Capitalised
		No addition during the year 2002-03.	

(PETITIONER)

Form 05 – Yearly Statement of Add. Capitalisation & Financing

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Work/Equipment added/to be added	Amount Capitalised/Proposed to be capitalised	Financing Details			
			Equity	Loan-1	Loan-2	So on
	Rs. 445 Cr. planned to be spent on Renovation & Modernisation of I.P.Station					

(PETITIONER)

Form 06 – Yearly Statement of Depreciation

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year (Apr.-Oct'03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Accumulated depreciation				
2	Depreciation on Capital Cost	Rs.3.38 Cr.	Rs.2.63 Cr.	Rs.4.50 Cr.	Rs.6.86 Cr.
3	Amount of Additional Capitalisation			Rs.30 Cr.	Rs.110 Cr.
4	Depreciation on Additional Capitalisation		Rs.0.69 Cr.	Rs.1.18 Cr.**	Rs.4.31 Cr.
5	Amount of FERV on which depreciation charged			--	--
6	Depreciation amount related to FERV			--	--
7	Total Depreciation during the year (2+4+6)	Rs.3.38 Cr.	Rs.3.32 Cr.	Rs.5.68 Cr.	Rs.11.17 Cr.

* Gross assets Rs.57.44 Cr. x 7.84%.

** Average investment Rs.15 Cr. x 7.84%.

(PETITIONER)

Form 07 – Yearly Statement of Advance Against Depreciation

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

Figure in Rs. Crore

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year (April to Oct.03) actual	Current year(2003-04) Estimated	Ensuing year(2004-05) Estimated
1	1/12 th of the Original Scheduled Loan(s)	1.87	2.08	2.08	4.58
2	Originally Scheduled Repayments of the Loan(s)	-	--	--	--
3	Min. of Col. (1) & (2)	-	--	--	--
4	Total Depreciation during the year (From form 6)	3.38	3.32	5.68	11.17
5	ADD= (3) – (4)		--		

(PETITIONER)

Form 08 – Computation of Interest on Various Loans

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

Figure in Rs. Crore

S. No.	Details	2003-04		2004-05	
		Loan-1 (Holding Company)	Loan-2 (Govt.)	Loan-1 (Holding Company)	Loan-2 (Govt.)
1	Opening Balance	22.47	3.00	22.47	33
2	New Disbursement	--	30.00	-	110
3	Schedule Repayment date	2006-07		2006-07	
4	Scheduled exchange rate	N.A.		N.A.	
5	Actual Repayment date	Jan.,2007		Jan'07	
6	Actual exchange rate	N.A.		N.A.	N.A.
7	Repayment amount	N.A.		N.A.	
8	Closing balance	22.47	33	22.47	143
9	Interest paid/Payable	NIL	2.04	NIL	9.74

(PETITIONER)

Form 09 – Yearly Statement of Interest on Working Capital

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

Figure in Rs. Crore

S. No.	Details	Previous Year (2002-03)	Current Year (April-03 to Oct. -03) Actual	Current Year Estimated (2003-04)	Ensuing Year Estimated (2004-05)
1	Fuel Cost – 1 month (Rs.)	7.63	11.00	11.00	11.55
2	Fuel Stock – 1 month (Rs.)	7.63	11.00	11.00	11.55
3	Oil stock – 2 months (Rs.)	1.62	2.35	2.35	2.46
4	Coal Stock 1 month (Rs.)	6.82	9.83	9.83	10.32
5	Oil Stock –2 months (Rs.)	1.62	2.35	2.35	2.46
6	O&M expenses – 1 month	4.10	6.15	5.18	5.69
7	Spares 1 year = 40% of O&M Less 1/5 th of initial capitalized spares for first 5 years	1.65	2.46	2.05	2.26
8	Receivables –2 months	17.14	32.41	32.41	32.41
9	Total Working Capital (Rs.Cr)	48.21	77.55	76.17	78.70
10	Working Capital Loan allowed				
11	Weighted Average Interest Rate	12.5 %	12.5%	12.5 %	12.5%
12	INTEREST ON WORKING CAPITAL (Rs.Cr.)	4.52	5.66	9.52	9.84

S.No.	Source of Loan for Working Capital	Amount (Rs.Cr)	Rate of interest (Cash Credit) (%)
1			
2			
3			
4			
5	TOTAL		
6	Weighted Average Rate of Interest		

(PETITIONER)

Form 10 – Yearly Detail of Operation & Maintenance expenses

Name of the Company : I.P.G.C.L.
Name of the Power Station : I.P. STATION

Figure s in Rs. Crore

S. No.	Details	Previous Year (2002-03)	Current Year (April-03 to Oct-03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
A	Breakup of O&M expenses				
1	Employee cost	22.75	31.50		
2	Repair and Maintenance	11.07	10.64		
3	Stores consumed				
4	Water Charges	0.39			
5	Communication expenses	0.06	0.07		
6	Traveling expenses	0.03	0.01		
7	Insurance				
	- Plant and Machinery				
	- Other				
8	Rent				
9	Security expenses	1.12	0.08		
10	Professional expenses				
11	Printing and Stationery		0.01		
12	Corporate office expenses allocation (B9)	1.32	0.43		
13	Other expenses	0.18			
14	Total (1 to 13)	36.92	42.74	61.57	67.73
	LESS: Recovered (IF ANY)				
	Net Expenses				
	Abnormal O&M Expenses				
	On account of water charges (Rs.)		0.32	0.54	0.57
	On account of other factors				
	Base O&M Expenses	36.92	43.06	62.11	68.30
B	Corporate office expenses (aggregate)				
1	-Direct employee expense	10.09	5.09		
2	-Repair and maintenance	0.52	1.27		
3	-Training and Recruitment				
4	-Communication	0.08	0.08		
5	-Traveling	0.01	0.01		
6	-Security	0.27	0.01		
7	-Rent				
8	-Others	1.09	1.62		
9	Total	12.06	8.08		
10	Less Claimed from PPCL	6.03	4.04		
11	Total IPGCL share (9-10)	6.03	4.04		

(PETITIONER)

Form 11 – Yearly Fixed Charges Calculation

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

Figure in Rs.Crore

S.No.	Details	Previous Year (2002-03)	Current Year (Apr.-Oct-03) Actual	Current Year Estimated	Ensuing Year Estimated
1	Depreciation	3.38	3.32	5.68	11.17
2	Interest on Loan	0.15	1.19	2.04	9.74
3	Return on Equity	1.80	1.40	2.40	2.40
4	Advance against Depreciation	-	--	--	--
5	Interest on Working Capital	4.52	5.66	9.52	9.84
6	O&M Expenses	36.92	43.49	62.11	68.30
7	Total (1-6)	46.77	55.06	81.75	101.45

(PETITIONER)

Form 12 – Yearly Fuel Cost Details

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. Station

Year 2002-03

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal	72548 MT	474110 MT	497007 MT	49651 MT
2	Oil	2478 KL	5592.950 KL	6408.950 KL	1662 KL
3	Naphtha				
4	Gas (Only Consumption)				

Current Year : April, 03 to Oct., 03 (Actual)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal (MT)	49651	333334	306124	76861
2	Oil (KL)	1662	4406.830	4477.830	1591
3	Naphtha				
4	Gas (Only Consumption)				

Current Year : April, 03 to March, 04 (Estimated)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal (MT)	49651		657766	
2	Oil (KL)	1662		8728	
3	Naphtha				
4	Gas (Only Consumption)				

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.
 Name of the Power Station : I.P. STATION

		(9 months) July,02 to March,03 (Actual)
S.No.	Details	
1	Unit Capacity (MW)	247.5
2	Gross Generation (Kwh)	459,079,000
3	Auxiliary Consumption	53,344,979
4	Normative Auxiliary Consumption (%)	11.64
5	Net Generation (2-3) (Kwh)	405734021
6	Coal consumption (MT)	367263
7	Cost per ton of coal (Rs)	1672.21
8	Weighted average GCV of coal (Kcal/Kg)	4191
9	Secondary oil consumption (KL)	4680.92
10	Cost of Secondary oil per KL (Rs)	15527
11	Calorific value of oil Kcal/L (weighted)	10690
12	Total Heat Input (6*8 + 9*11)	1589438 x 10 ⁶
13	Heat rate achieved in Kcal/Kwh (12/2)	3462.23
14	Approved heat rate in Kcal/Kwh	3235
15	Total cost of fuel (6*7 + 9*10)	686821506
16	Variable cost in Rs/Kwh (15/5)	1.69

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Details	(April, 03 to October,03) (Actual)	(Estimated) April-03 to March-04	2004-05
1	Unit Capacity (MW)	247.5	247.5	247.5
2	Gross Generation (Kwh)	376,793,000	800,000,000	800,000,000
3	Auxiliary Consumption	51,505,844 (13.69%)	105,464,000 (13.18%)	96,000,000 (12%)
4	Normative Aux. Cons. (%)	11.64	11.64	11.64
5	Net Generation (2-3) (Kwh)	325,287,156	694,536,000	704,000,000
6	Coal consumption (MT)	306124	657766	640,000 (.8/Kwh)
7	Cost per ton of coal (Rs)	1753.39 upto 25/6	1827.75 *	1919.14 (5% Escalation)
8	Weighted average GCV of coal(Kcal/Kg)	4095	4100	4100
9	Secondary oil cons. (KL)	4477.830	8728	8700
10	Cost of Secondary oil per KL (Rs)	16145	16145	16952 (5% Escalation)
11	Calorific value of oil Kcal/L	10720	10720	10720
12	Total Heat Input (6*8 + 9*11)	1301579 x 10 ⁶	2790404x10 ⁶	2717264x10 ⁶
13	Heat rate achieved in Kcal/Kwh (12/2)	3454.36	3488.00	3396.58
14	Approved heat rate in Kcal/Kwh	3235	3235	3235
15	Total cost of fuel (6*7 + 9*10)	Rs.60.90 Cr.	Rs.132.03 Cr.	Rs.137.57 Cr.
16	Variable cost in Rs/Kwh (15/5)	1.86	1.90	1.95

- Cost of coal Rs.1753.39 upto 25.6.03, Rs.1761.19 from 26.6.03 to 15.10.03 and Rs.1827.75 from 16.10.03 onwards.

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Details	Module-1	Module-2 & so on	Station Total
1	No. of Unit (G.T.)	--N.A.--		
2	Unit Capacity (G.T.)			
3	Unit Capacity (S.T.)			
4	Gross Gen. of Module in Open Cycle			
5	Gross Gen. of Module in Comb. Cycle			
6	Actual Aux. Cons. in Comb. Cycle			
7	Actual Aux. Cons. in Open Cycle			
8	Normative Aux. Cons. in Open Cycle			
9	Normative Aux. Cons. in Comb. Cycle			
10	Net Generation in Open Cycle (4-6)			
11	Net Generation in Comb. Cycle (5-7)			
12	Gas consumption (SCM)			
13	Rate of gas per unit (Rs./SCM)			
14	Type of Liquid Fuel			
15	Liquid Fuel consumption (KL)			
16	Rate of Liquid Fuel per KL (Rs)			
17	Total cost of fuel (12*13 + 15*16)			
18	Variable cost in Rs/Kwh in Open Cycle (17/10)			
19	Variable cost in Rs/Kwh in Comb. Cycle (17/11)			

(PETITIONER)

Form 15 – Macro Economic Parameters

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Details	Previous year
1	Exchange rates with dollar	
2	Exchange rate with Euro	
3	Inflation	
4	Brent Crude oil Price	
5	PLR (SBI)	
6	Bank Rate	
7	Effective Corporate Tax	
8	Industrial Growth Rate	
9	Service sector growth rate	
10	Agriculture Growth Rate	
11	Delhi Population growth rate	
12	Dearness allowance rate	
13	Average electricity tariff	

(PETITIONER)

Form 16 – Generation Tariff Calculation

Name of the Company : I.P.G.C.L.

Name of the Power Station : I.P. STATION

S.No.	Details	Previous year 2002-03	Current year actual 2003-04 (upto Oct,03)	Current Year Estimated 2003-04	Ensuing Year Estimated 2004-05
1	Gross Generation (MU)	459.079	376.793	800	800
2	Auxiliary Consumption	53.345	51.506	106	96
3	Net Generation (MU)	405.734	325.287	694	704
4	Per Unit Fixed Charges (Rs/Kwh)	1.15	1.69	1.18	1.44
5	Per Unit Variable cost (Rs/Kwh)	1.69	1.86	1.90	1.95
6	Generation Tariff (Rs/Kwh)	2.84	3.55	3.08	3.39

(PETITIONER)

Form 01 – Plant Characteristic

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Details	Unit-1	Unit-2	Unit-3	Unit-4 & so on
1	Rate capacity (MW)	67.5	67.5		
2	Date of synchronization	20.2.1990	6.5.1989		
3	Capacity at the date of synchronization (MW)	18	18		
4	Date of entry into commercial operation				
5	Date of stabilization	May,1990	Jan.,1990		
6	Capacity at the date of stabilization (MW)	67.5	67.5		
7	Has any performance test been performed	T/G only	Boiler only		
8	F yes, capacity at test	67.5 MW	67.5 MW		
9	Type of cooling system for condenser	Closed re-circulation type C.W. System			
10	Type of Boiler Feed Pump	Motor Driven			
11	Type of cooling system for electric generator	Air cooled	Air cooled		
12	Any other special feature	NIL	NIL		
13	Fuel Type	Coal	Coal		
14	Basic characteristics of the plant	Conventional Steam Generator			

(PETITIONER)

Form 02 – Statement of Project Cost upto COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Break Down Details		Cost in Rs. Lacs	
			As per original approval	As in completed cost on COD
(I)1	Cost of Land, Works, Plant & Equipment & services			
2	Land & Preliminary Investigation			
3	Site development			
4	Steam Generator Island			
5	Turbine Generator Island			
6	BOP Mechanical			
7	BOP Electrical & C&I			
8	External water supply system			
9	External coal transportation system			
10	Rolling Stock and Locomotives			
11	Ash disposal Plant & Equipment			
12	Initial spares			
13	Civil Works			
14	Ash disposal area development			
15	Township & Colony			
16	Temp. constn. & enabling works			
17	Erection Testing and commissioning			
18	Procurement & Management fee			
19	Installation & Engineering			
20	Estab./Construction supervision			
21	Operator's Training(Also see 23,25)			
22	Construction Insurance			
23	Tools & Plant			
24	Access and diversion Road			
25	Operators training			
26	Start up fuel			
27	Shared Facilities Costs			
(II)28	Taxes and Duties :-			
29	Custom Duty			
30	Other Taxes & Duties			
(III)31	Overheads :-			
32	Development expenses			
33	Legal fee etc.			
34	Establishment			
35	Owners Engg. Expenses			
36	Pre-operative expenses			
37	Audit & Accounts			
38	Contingency			
(IV)39	Project cost without IDC & FC			

(V)40	IDC			
(VI)41	Project cost including IDC & FC			161.70
42	Working Capital Margin			66.04

The said figures of project cost is as on 1.7.2002 i.e. the date of unbundling of DVB. The figure is tentative and subject to finalisation by the chartered accountant firm.

(PETITIONER)

Form 03 – Financial Package upto COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

Description : Financial package upto COD

(Rupees in Cr.)

	Financial Package as Approved		Financial Package as on COD	
	Currency and Amount		Currency and Amount	
Loan-I			1 NR	63.27
Loan-II				
Loan-III				
and so on				
Equity-				
Foreign				
Domestic				42.18
Total Equity				42.18

NOTE:- The above figures are tentative only. The loan from holding company has been allocated to respective power station based on gross fixed asset allocation.

(PETITIONER)

Form 04 – Additional Capitalisation after COD

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Year	Work/Equipment added after COD	Amount Capitalised
		No addition in Financial year 2002-03	

(PETITIONER)

Form 05 – Yearly Statement of Add. Capitalisation & Financing

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Work/Equipment added/to be added	Amount Capitalised/Proposed to be capitalised	Financing Details			
			Equity	Loan-1	Loan-2	So on
		Rs.103.69 (Cr.) to be spent on Renovation & Modernisation				

(PETITIONER)

Form 06 – Yearly Statement of Depreciation

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year(April-Oct-03)	Current Year (Cr.) Estimated	Ensuing Year Estimated
1	Accumulated depreciation				
2	Depreciation on Capital Cost	9.50	7.40	12.68	13.34
3	Amount of Additional Capitalisation			8.50 (Cr.)	37.86 (Cr.)
4	Depreciation on Additional Capitalisation		0.20	0.33	1.48
5	Amount of FERV on which depreciation charged				
6	Depreciation amount related to FERV			--	
7	Total Depreciation during the year (2+4+6)	9.50	7.60	13.01	14.82

(PETITIONER)

Form 07 – Yearly Statement of Advance Against Depreciation

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year actual (Apl- Oct-03)	Current year (2003-04) Estimated	Ensuing year (2004-05) Estimated
1	1/12 th of the Original Scheduled Loan(s)	5.27	5.90	5.90	8.31
2	Originally Scheduled Repayments of the Loan(s)	NIL	NIL	NIL	NIL
3	Min. of Col. (1) & (2)	NIL	-	-	-
4	Total Depreciation during the year (From form 6)	9.50	7.60	13.01	14.82
5	ADD= (3) – (4)	-	-	-	-

(PETITIONER)

Form 08 – Computation of Interest on Various Loans

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S. No.	Details	2003-04		2004-05	
		Loan-1 (Holding Company)	Loan-2 (Govt.)	Loan-1 (Holding Company)	Loan-2 (Govt.)
1	Opening Balance	Rs.63.27 Cr.	Rs.7.50 Cr.	Rs.63.27 Cr.	Rs.15.80 Cr.
2	New Disbursement	--	Rs.8.3 Cr.	-	Rs.30.70 Cr.
3	Schedule Repayment date	2006-07		2006-07	
4	Scheduled exchange rate	NA	NA	N.A.	
5	Actual Repayment date	Jan,07		Jan'07	
6	Actual exchange rate	NA	NA	NA	N.A.
7	Repayment amount	--	--		
8	Closing balance	Rs.63.27 Cr.	Rs.15.80 Cr.	Rs.63.27 Cr.	Rs.46.50 Cr.
9	Interest paid/Payable	NIL	Rs.1.44 Cr.	NIL	Rs.3.58 Cr.

(PETITIONER)

Form 09 – Yearly Statement of Interest on Working Capital

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

Figures in Rs. Crore

S.No.	Details	Previous Year (2002-03)	Current Year (Apl-Oct-03) actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Fuel Cost – 1 month	10.83	7.94	10.36	11.88
2	Fuel Stock – 1 or ½ month	10.83	7.94	10.36	11.88
3	Oil stock – 2 months	0.92	0.69	1.04	1.18
4	Coal Stock 1 or ½ month	10.37	8.86	9.83	11.29
5	Oil Stock –2 months	0.92	0.69	1.04	1.18
6	O&M expenses – 1 month	1.90	2.67	3.27	3.59
7	Spares 1 year = 40% of O&M Less 1/5 th of initial capitalized spares for first 5 years	0.76	1.07	1.31	1.44
8	Receivables –2 months	22.81	23.50	28.83	31.00
9	Total Working Capital (Rs.Cr)	59.34	53.36	66.04	73.44
10	Working Capital Loan allowed			--	
11	Weighted Average Interest Rate	12.5	12.5	12.50	12.50
12	INTEREST ON WORKING CAPITAL (Rs.Cr.)	5.56	3.89	8.26	9.18

S.No.	Source of Loan for Working Capital	Amount (Rs.Cr)	Rate of interest (Cash Credit) (%)
1			
2			
3			
4			
5	TOTAL		
6	Weighted Average Rate of Interest		

(PETITIONER)

Form 10 – Yearly Detail of Operation & Maintenance expenses

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S. No.	Details	Previous Year (2002-03)	Current Year (Apl-Oct'03) actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
A	Breakup of O&M expenses				
1	Employee cost	9.50	12.16		
2	Repair and Maintenance	4.45	4.13		
3	Stores consumed				
4	Water Charges				
5	Communication expenses	0.04	0.04		
6	Traveling expenses	0.01	0.01		
7	Insurance				
	- Plant and Machinery				
	- Other				
8	Rent				
9	Security expenses	1.15	0.78		
10	Professional expenses				
11	Printing and Stationery		0.01		
12	Corporate office expenses allocation (B9)	1.79	1.21		
13	Other expenses	0.14			
14	Total (1 to 13)	17.08	18.34	38.67	42.54
	LESS: RECOVERED (IF ANY)				
	Net Expenses				
	Abnormal O&M Expenses				
	On account of water charges		0.32	0.54	0.57
	On account of other factors				
	Base O&M Expenses	17.08	18.66	39.21	43.11
B	Corporate office expenses (aggregate)				
1	-Direct employee expense	10.09	5.09		
2	-Repair and maintenance	0.52	1.27		
3	-Training and Recruitment				
4	-Communication	0.08	0.08		
5	-Traveling	0.01	0.01		
6	-Security	0.27	0.01		
7	-Rent				
8	-Others	1.09	1.62		
9	Total	12.06	8.08		
10	Less claimed from PPCL	6.03	4.04		
11	IPGCL Share (9-10)	6.03	4.04		

(PETITIONER)

Form 11 – Yearly Fixed Charges Calculation

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Details	Previous Year (2002-03)	Current Year (Apr-Oct'03) actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Depreciation	9.50	7.60	13.01	14.82
2	Interest on Loan	0.49	0.84	1.44	3.58
3	Return on Equity	5.06	3.94	6.75	6.75
4	Advance against Depreciation	-	-	-	-
5	Interest on Working Capital	5.56	3.89	8.26	9.18
6	O&M Expenses	17.08	18.66	39.21	43.11
7	Total	37.69	34.93	68.67	77.44

(PETITIONER)

Form 12 – Yearly Fuel Cost Details

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

2003-04(April-Oct.'03)Actual

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal	28740 MT	344175 MT	315578 MT	57337 MT
2	LSHS	1381.958 MT	1468.351 MT	1169.905 MT	1680.404 MT
3	LDO	411.955 KL	374.690 KL	553.437 KL	149.308 KL
4	Gas (Only Consumption)				

2003-04(Estimated)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal			657010 MT	
2	LSHS			2432.490 MT	
3	LDO			1148.896 KL	
4	Gas (Only Consumption)				

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

April'03 to Oct.03 (Actual)

S.No.	Details	Station Total
1	Unit Capacity	135
2	Gross Generation	380.6
3	Auxiliary Consumption	50.50
4	Normative Auxiliary Consumption	12.68%
5	Net Generation (2-3)	330.1
6	Coal consumption (MT)	315578
7	Cost per ton of coal (Rs)	Note-1
8	Weighted average GCV of coal (Kcal/Kg)	4117.31
9	Secondary oil consumption (KL)	LSHS
		LDO
10	Cost of Secondary oil per KL (Rs)	LSHS
		LDO
11	Calorific value of oil Kcal/KL	LSHS
		LDO
12	Total Heat Input (6*8 + 9*11)	1316964903
13	Heat rate achieved in Kcal/Kwh (12/2)	3460.23
14	Approved heat rate in Kcal/Kwh	3200
15	Total cost of fuel (6*7 + 9*10)	55.59(Cr.)
16	Variable cost in Rs/Kwh (15/5)	1.68

Note:-

1. Coal cost:-

Upto 25.06.2003	RS.1753.39 PMT
From 26.6.2003 to 15.10.2003	Rs.1761.19 PMT
From 16.10.2003 onward	Rs.1827.75 PMT

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

July'02 to March'03
(Actual)

S.No.	Details	Station Total
1	Unit Capacity	135
2	Gross Generation	625.34
3	Auxiliary Consumption	79.28
4	Normative Auxiliary Consumption	12.68%
5	Net Generation (2-3)	546
6	Coal consumption (MT)	532392
7	Cost per ton of coal (Rs)	1753.39
8	Weighted average GCV of coal (Kcal/Kg)	4212.9
9	Secondary oil consumption (KL) LSHS LDO	2479 MT
		574.2 MT
10	Cost of Secondary oil per KL (Rs) LSHS LDO	13006.65
		16144.94
11	Calorific value of oil Kcal/KL LSHS LDO	10000
		10720
12	Total Heat Input (6*8 + 9*11)	2273859423
13	Heat rate achieved in Kcal/Kwh (12/2)	3636.2
14	Approved heat rate in Kcal/Kwh	3200
15	Total cost of fuel (6*7 + 9*10)	97.50(Cr.)
16	Variable cost in Rs/Kwh (15/5)	1.79

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

2003-04(Estimated)

S.No.	Details	Station Total
1	Unit Capacity	135
2	Gross Generation	792
3	Auxiliary Consumption	100
4	Normative Auxiliary Consumption	12.68%
5	Net Generation (2-3)	692
6	Coal consumption (MT)	657000
7	Cost per ton of coal (Rs)	*
8	Weighted average GCV of coal (Kcal/Kg)	4117.31
9	Secondary oil consumption (KL) LSHS	2432.5MT
	LDO	1148.9 MT
10	Cost of Secondary oil per KL (Rs) LSHS	13006.65
	LDO	16144.94
11	Calorific value of oil Kcal/KL LSHS	10000
	LDO	10720
12	Total Heat Input (6*8 + 9*11)	2744060404
13	Heat rate achieved in Kcal/Kwh (12/2)	3464.7
14	Approved heat rate in Kcal/Kwh	3200
15	Total cost of fuel (6*7 + 9*10)	123.02(Cr.)
16	Variable cost in Rs/Kwh (15/5)	1.78

• COAL RATE:-

1.4.2003 to 25.6.2003 Rs.1753.39/ MT
 26.6.2003 to 15.10.2003 Rs.1761.19/ MT
 16.10.2003 onward Rs.1827.75/ MT

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

2004-05

S.No.	Details	Station Total
1	Unit Capacity	135
2	Gross Generation	850
3	Auxiliary Consumption	105
4	Normative Auxiliary Consumption	12.68%
5	Net Generation (2-3)	745
6	Coal consumption (MT)	695521
7	Cost per ton of coal (Rs)	1919.15
8	Weighted average GCV of coal (Kcal/Kg)	4117.31
9	Secondary oil consumption (KL) LSHS LDO	3638 MT
		1236 KL
10	Cost of Secondary oil per KL (Rs) LSHS LDO	13657
		16952
11	Calorific value of oil Kcal/L LSHS LDO	10000
		10720
12	Total Heat Input (6*8 + 9*11) Kcal	2913305488x10 ³
13	Heat rate achieved in Kcal/Kwh (12/2)	3413.8
14	Approved heat rate in Kcal/Kwh	3200
15	Total cost of fuel (6*7 + 9*10)	140.5(Cr.)
16	Variable cost in Rs/Kwh (15/5)	1.89

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.C.L.
Name of the Power Station : Rajghat Power Station

S.No.	Details	Module-1	Module-2 & so on	Station Total
1	No. of Unit (G.T.)			
2	Unit Capacity (G.T.)			
3	Unit Capacity (S.T.)			
4	Gross Generation of Module in Op.Cycle			
5	Gross Generation of Module in Com. Cycle			
6	Actual Auxiliary Consumption in Com. Cycle	<u>NOT APPLICABLE</u>		
7	Actual Auxiliary Consumption in Op. Cycle			
8	Normative Auxiliary Consumption in Op. Cycle			
9	Normative Auxiliary Consumption in Com. Cycle			
10	Net Generation in Op.Cycle (4-6)			
11	Net Generation in Com.Cycle (5-7)			
12	Gas consumption (SCM)			
13	Rate of gas per unit (Rs./SCM)			
14	Type of Liquid Fuel			
15	Liquid Fuel consumption (KL)			
16	Rate of Liquid Fuel per KL (Rs)			
17	Total cost of fuel (12*13 + 15*16)			
18	Variable cost in Rs/Kwh in Op.Cycle (17/10)			
19	Variable cost in Rs/Kwh in Com.Cycle (17/11)			

(PETITIONER)

Form 15 – Macro Economic Parameters

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Details	Previous year
1	Exchange rates with dollar	
2	Exchange rate with Euro	
3	Inflation	
4	Brent Crude oil Price	
5	PLR (SBI)	
6	Bank Rate	
7	Effective Corporate Tax	
8	Industrial Growth Rate	
9	Service sector growth rate	
10	Agriculture Growth Rate	
11	Delhi Population growth rate	
12	Dearness allowance rate	
13	Average electricity tariff	

(PETITIONER)

Form 16 – Generation Tariff Calculation

Name of the Company : I.P.G.C.L.

Name of the Power Station : Rajghat Power Station

S.No.	Details	Previous year (2002-03) [July'02 to March'03]	Current year (April'03 to Oct-03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Gross Generation (MU)	625.34	380.5730	792.000	850.000
2	Auxiliary Consumption	79.28	50.5003	100.00	105.00
3	Net Generation (MU)	546.06	330.0727	692.000	745.00
4	Per Unit Fixed Charges (Rs/Kwh)	0.69	1.06	0.99	1.04
5	Per Unit Variable cost (Rs/Kwh)	1.79	1.76	1.80	1.89
6	Generation Tariff (Rs/Kwh)	2.48	2.82	2.79	2.93

(PETITIONER)

Form 01 – Plant Characteristic

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.N o.	Details	GT # 1	GT # 2	GT # 3	GT # 4	GT # 5	GT # 6	STG # 1	STG # 2	STG # 3
1	Rated capacity	30 MW	30 MW	30 MW	30 MW	30 MW	30 MW	34 MW	34 MW	34 MW
2	Date of synchronization	14.05.86	29.05.86	24.06.86	31.07.86	31.08.86	15.11.86	29.03.95	31.10.95	26.03.96
3	Capacity at the date of synchronization									
4	Date of entry into commercial operation	17.06.86	20.06.86	11.08.86	03.09.86	11.11.86	20.11.86	25.04.96	12.08.97	27.12.96
5	Date of stabilization									
6	Capacity at the date of stabilization									
7	Has any performance test been performed	05.11.86	19.11.86	23.11.86	14.11.86	02.12.86	27.12.86	15.02.97		26.03.96
8	If yes, capacity at test	33.020	34.735	34.567	--	--	35.224	--	--	--
9	Type of cooling system for condenser	--	--	--	--	--	--	CLOSED CIRCUIT COOLING		
10	Type of Boiler Feed Pump	--	--	--	--	--	--	MULTI STAGE CENTRIFUGAL PUMP		
11	Type of cooling system for electric generator	OPEN SELF VENTILATED						AIR COOLED		
12	Any other special feature									
13	Fuel Type	GAS/H SD	GAS/H SD	GAS/H SD	GAS/H SD	GAS/H SD	GAS/H SD			
14	Basic characteristics of the plant	COMBINED CYCLE GAS TURBINE POWER STATION								

(PETITIONER)

Form 02 – Statement of Project Cost upto COD

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Break Down Details		Cost in Rs. Crores	
			Gas Turbines	
			As per original approval	As in completed cost on COD
1	Cost of Land, Works, Plant & Equipment & services		(Turnkey Project)	
2	Land & Preliminary Investigation			
3	Site development			
4	Steam Generator Island			
5	Turbine Generator Island			
6	BOP Mechanical			
7	BOP Electrical & C&I			
8	External water supply system			
9	External coal transportation system			
10	Rolling Stock and Locomotives			
11	Ash disposal Plant & Equipment			
12	Initial spares			
13	Civil Works			
14	Ash disposal area development			
15	Township & Colony			
16	Temp. construction & enabling works			
17	Erection Testing and commissioning			
18	Procurement & Management fee			
19	Installation & Engineering			
20	Estab./Construction supervision			
21	Operator's Training			
22	Construction Insurance			
23	Tools & Plant			
24	Access and diversion Road			
25	Operators training			
26	Start up fuel			
27	Shared Facilities Costs			
28	Taxes and Duties			
29	Custom Duty			
30	Other Taxes & Duties			
31	Overheads			
32	Development expenses			
33	Legal fee etc.			
34	Establishment			
35	Owners Engg. Expenses			
36	Pre-operative expenses			
37	Audit & Accounts			
38	Contingency			

39	Project cost without IDC & FC			
40	IDC & FC4			
41	Project cost including IDC & FC			Rs. 290.86 Cr.*
42	Working Capital Margin			Rs36.4 Cr.

Note:-

- * The unbundling date i.e. 1.7.2002 of DVB has been taken as COD. This figure is tentative and subject to finalisation by the chartered Accountant firm.

(PETITIONER)

Form 03 – Financial Package upto COD

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Description : Financial package upto COD

	Financial Package as Approved		Financial Package as on COD	
	Currency and Amount		Currency and Amount	
Loan-I	Holding Co.		1 NR	124.26
Loan-II				
Loan-III				
and so on				
Equity-				
Foreign				
Domestic			1NR	82.83
Total Equity				82.83

(PETITIONER)

Form 04 – Additional Capitalisation after COD

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Year	Work/Equipment added after 1.7.2002	Amount Capitalized
	2002-03	Overhauling of GTs and refurbishment of WHRU	Rs.24.53 Cr.

(PETITIONER)

Form 05 – Yearly Statement of Add. Capitalisation & Financing

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Work/Equipment added/to be added	Amount Capitalised/Proposed to be capitalised	Financing Details			
			Equity	Loan-1	Loan-2	So on
	Overhauling of GTs and refurbishment in three financial year	Rs.121.00 Cr.				

(PETITIONER)

Form 06 – Yearly Statement of Depreciation

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figures in Rs.Crs.)

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year (Apr.03toOct03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Accumulated depreciation				
2	Depreciation on Capital Cost	17.98	15.16	25.98	28.87
3	Amount of Additional Capitalisation	24.53		35	45
4	Depreciation on Additional Capitalisation	0.76	0.84	1.43	1.85
5	Amount of FERV on which depreciation charged				
6	Depreciation amount related to FERV				
7	Total Depreciation during the year (2+4+6)	18.74	16.00	27.41	30.72

(PETITIONER)

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figures in Rs. Crores

S.No.	Depreciation Parameters	Previous Year (2002-03)	Current Year (April'03-Oct'03) Actual	Current year (2003-04) Estimated	Ensuing year (2004-05) Estimated
1	1/12 th of the Original Scheduled Loan(s)	10.36	13.55	13.55	16.46
2	Originally Scheduled Repayments of the Loan(s)		-	-	-
3	Min. of Col. (1) & (2)			-	-
4	Total Depreciation during the year (From form 6)	18.74	16.00	27.41	30.72
5	ADD= (3) – (4)				

(PETITIONER)

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figure in Rs.Crore

S. No.	Details	(2003-04)		2004-05	
		Loan- 1 (Holding Company)	Loan-2 (Govt.)	Loan-1 (Holding Company)	Loan-2 (Govt.)
1	Opening Balance	124.26	38.30	124.26	73.30
2	New Disbursement	-	35	-	45.00
3	Schedule Repayment date	Jan'07		Jan'07	
4	Scheduled exchange rate	N.A.			
5	Actual Repayment date	Jan,07			
6	Actual exchange rate	N.A.			
7	Repayment amount	-			
8	Closing balance	124.26	73.30	124.26	118.30
9	Interest paid/Payable	NIL	06.91	Nil	11.31

(PETITIONER)

Form 09 – Yearly Statement of Interest on Working Capital

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figures in Rs. Crores

S.No.	Details	Previous Year (2002-03)	Current Year (upto Oct.03) actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Fuel Cost – 1 month	12.50	13.36	13.97	17.06
2	Fuel Stock – 1 or ½ month	-			
3	Oil stock – 2 months	5.40	5.40	5.40	5.67
4	Coal Stock 1 or ½ month	-	-	-	
5	Oil Stock –2 months	5.40	5.40	5.40	5.67
6	O&M expenses – 1 month	2.44	1.93	2.11	2.37
7	Spares 1 year = 40% of O&M Less 1/5 th of initial capitalized spares for first 5 years	0.98	0.77	0.84	0.95
8	Receivables –2 months	36.92	36.22	36.22	36.22
9	Total Working Capital (Rs.Cr)	63.64	63.08	63.94	67.94
10	Working Capital Loan allowed				
11	Weighted Average Interest Rate (%)	12.5	12.5	12.5	12.5
12	INTEREST ON WORKING CAPITAL (Rs.Cr.)	5.97	4.60	7.99	8.49
13					

S.No.	Source of Loan for Working Capital	Amount (Rs.Cr)	Rate of interest (Cash Credit) (%)
1			
2			
3			
4			
5	TOTAL		
6	Weighted Average Rate of Interest		

Note:- HSD is stored for emergency running on liquid fuel.

(PETITIONER)

Form 10 – Yearly Detail of Operation & Maintenance expenses

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figure in Rs.Crore

S. No.	Details	Previous Year (2002-03)	Current Year (Apr.-Oct'03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
A	Breakup of O&M expenses				
1	Employee cost	3.09	2.69		
2	Repair and Maintenance	14.78	7.60		
3	Stores consumed				
4	Water Charges	0.03			
5	Communication expenses	0.03	0.03		
6	Traveling expenses	0.01	0.01		
7	Insurance				
	- Plant and Machinery				
	- Other				
8	Rent				
9	Security expenses	0.93	0.45		
10	Professional expenses				
11	Printing and Stationery				
12	Corporate office expenses allocation (B9)	2.92	2.40		
13	Other expenses	0.14			
14	Total (1 to 13)	21.93	13.18	24.76	27.24
	LESS: RECOVERED (IF ANY)				
	Net Expenses				
	Abnormal O&M Expenses				
	On account of water charges		0.32	0.54	0.57
	On account of other factors				
	Base O&M Expenses	21.93	13.50	25.30	28.38
B	Corporate office expenses (aggregate)				
1	-Direct employee expense	10.09	5.09		
2	-Repair and maintenance	0.52	1.27		
3	-Training and Recruitment				
4	-Communication	0.08	0.08		
5	-Traveling	0.01	0.01		
6	-Security	0.27	0.01		
7	-Rent				
8	-Others	1.09	1.62		
9	Total	12.06	8.08		
10	Less claimed from PPCL	6.03	4.04		
11	Balance	6.03	4.04		

(PETITIONER)

Form 11 – Yearly Fixed Charges Calculation

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Figure in Rs. Crore

S.No.	Details	Previous Year (2002-03)	Current Year (Apr-Oct'03) Actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Depreciation	18.74	16.00	27.41	30.72
2	Interest on Loan	1.87	4.03	6.91	11.31
3	Return on Equity	9.94	7.73	13.25	13.25
4	Advance against Depreciation		-	-	-
5	Interest on Working Capital	5.97	4.60	7.99	8.49
6	O&M Expenses	21.93	13.50	25.30	28.38
7	Total	58.45	45.86	80.86	92.15

(PETITIONER)

Form 12 – Yearly Fuel Cost Details

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

Year 2002-03(July to March'03)

S.No.	Fuel	Opening Stock (as on 1.7.2002)	Receipt	Consumption	Closing Stock
1	Coal				
2	Oil (HSD)	3362.229 KL	-	5.924 KL	3356.305 KL
3	Naphtha				
4	Gas (Only Consumption)			259601890 SCM	

Current year: April, 03 to October, 03 (Actual)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal				
2	Oil (HSD)	3356.305 KL	3073.460 KL	4776.118 KL	1653.647 KL
3	Naphtha				
4	Gas (Only Consumption)			197910536 SCM	

Current Year : April, 03 to March, 04 (Estimated)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal				
2	Oil (HSD)	3356.305 KL	11634 KL	13000 KL	4722 KL
3	Naphtha				
4	Gas (Only Consumption)			335508000 SCM	

Ensuing Year :2004-05 (Estimated)

S.No.	Fuel	Opening Stock	Receipt	Consumption	Closing Stock
1	Coal				
2	Oil (HSD)	4722 KL	-	140 KL	4582 KL
3	LNG			206 x 10 ⁶ SCM	
4	CNG (Only Consumption)			101 x 10 ⁶ SCM	

(PETITIONER)

Form 13 – Yearly Variable Cost Calculation (Coal as fuel)

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Details	Station Total
1	Unit Capacity	NOT APPLICABLE
2	Gross Generation	
3	Auxiliary Consumption	
4	Normative Auxiliary Consumption	
5	Net Generation (2-3)	
6	Coal consumption (MT)	
7	Cost per ton of coal (Rs)	
8	Weighted average GCV of coal (Kcal/Kg)	
9	Secondary oil consumption (KL)	
10	Cost of Secondary oil per KL (Rs)	
11	Calorific value of oil Kcal/KL	
12	Total Heat Input (6*8 + 9*11)	
13	Heat rate achieved in Kcal/Kwh (12/2)	
14	Approved heat rate in Kcal/Kwh	
15	Total cost of fuel (6*7 + 9*10)	
16	Variable cost in Rs/Kwh (15/5)	

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.CL.

2002-03 Actual
(July-02 to March-03)

Name of the Power Station : Gas Turbine Power Station

S. No.	Details	Module-1	Module-2 & so on	Module-3	Station Total
1	No. of Unit (G.T.) (MW)	2x30 + 1 X 34	2x30 + 1 x 34	2X30 + 1 x 34	282
2	Unit Capacity (G.T.) (MW)	30x2	30x2	30X2	180
3	Unit Capacity (S.T.) (MW)	34	34	34	102
4	Gross Generation of GT's (MU)	121.477	403.443	410.559	705.513
5	Gross Generation of plant (MU)	121.477	534.967	557.523	903.715
6	Actual Aux. Cons. Of GT's(MU)	-	-	-	--
7	Actual Aux. Cons. Of plant(MU)	-	-	-	20.044
8	Normative Aux. Cons. in Open Cycle	--	--	--	1%
9	Normative Auxiliary Cons. in Comb. Cycle	--	--	--	3%
10	Net Gen. in Open Cycle (4-6)	--	--	--	--
11	Net Gen. of plant (5-7)	--	--	--	883.711
12	Gas consumption (SCM)	--	--	--	259601890
13	Rate of gas per unit (Rs./SCM)				4.312847
14	Type of Liquid Fuel	HSD	HSD	HSD	
15	Liquid Fuel consumption (KL)	--	--	--	5.924
16	Rate of Liquid Fuel per KL (Rs)	--	--	--	12915.49
17	Total cost of fuel (12*13 + 15*16)	Rs.111.97 Cr.			
18	Variable cost in Rs/Kwh in Open Cycle (17/10)	--	--	--	--
19	Variable cost in Rs/Kwh (17/11)	--	--	--	1.27

- Note:- 1. Gross Generation of modules in open cycle and combined cycle separately is not available.
2. Auxiliary consumption in open cycle and combined cycle are not recorded separately.

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.CL.

April,03-Oct.,03 (Actual)

Name of the Power Station : Gas Turbine Power Station

S.N o.	Details	Module-1	Module-2 & so on	Module-3	Station Total
1	No. of Unit (G.T.) (MW)	2x30+34	2x30+34	2X30+34	282
2	Unit Capacity (G.T.) (MW)	30x2	30x2	30X2	180
3	Unit Capacity (S.T.) (MW)	34	34	34	102
4	Gross Gen. of GT's (MU)	40.809	232.612	265.516	538.937
5	Gross Generation plant(MU)	40.809	261.858	356.789	659.456
6	Actual Aux. Cons. of GT's (MU)	NA	NA	NA	--
7	Actual Aux. Cons.of plant (MU)	NA	NA	NA	14.030
8	Normative Auxiliary Cons. in Open Cycle	--	--	--	1 %
9	Normative Auxiliary Cons. in Comb. Cycle	--	--	--	3 %
10	Net Generation in Open Cycle (4-6)	--	--	--	--
11	Net Generation of plant(5-7)	--	--	--	645.426
12	Gas consumption (SCM)	--	--	--	197910536
13	Rate of gas per unit (Rs./SCM)				4.316651
14	Type of Liquid Fuel	HSD	HSD	HSD	
15	Liquid Fuel consumption (KL)	4776.118*	--	--	4776.118
16	Rate of Liquid Fuel per KL (Rs)	--	--	--	16862.77*
17	Total cost of fuel (12*13 + 15*16)	Rs. 93.485 cr.			
18	Variable cost in Rs/Kwh in Open Cycle (17/10)	--	--	--	--
19	Variable cost in Rs/Kwh (17/11)	--	--	--	1.45

* GT # 1 & 2 were run on HSD.

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.CL.

April,03 to March,04 (Estimated)

Name of the Power Station : Gas Turbine Power Station

S. No.	Details	Module-1	Module-2	Module-3	Station Total
1	No. of Unit (G.T.) (MW)	2 x30 + 1x34	2x30 + 1x34	2x30 + 1x34	282
2	Unit Capacity (G.T.) (MW)	2x30	2x30	2x30	180
3	Unit Capacity (S.T.) (MW)	1x34	1x34	1x34	102
4	Gross Generation of GT's(MU)	153.000	377.000	385.000	915.000
5	Gross Generation of plant (MU)	208.000	474.000	518.000	1200.000
6	Auxiliary Consumption of GT' (MU)	--	--	--	--
7	Aux. Cons. of plant (MU)	--	--	--	36
8	Normative Auxiliary Cons. in Open Cycle	--	--	--	(@ 1 %)
9	Normative Aux. Cons. In Comb. Cycle	--	--	--	(@ 3 %)
10	Net Generation of plant (4-6)	--	--	--	--
11	Net Generation of plant(5-7)	--	--	--	1164
12	Gas consumption (SCM)	--	--	--	335508000
13	Rate of gas per unit (Rs./SCM)				4.319095
14	Type of Liquid Fuel	HSD	HSD	HSD	
15	Liquid Fuel consumption (KL)	--	--	--	13000
16	Rate of Liquid Fuel per KL (Rs)				17462.22
17	Total cost of fuel (12*13 + 15*16)		--	--	Rs.167.61 Cr.
18	Variable cost in Rs/Kwh in Open Cycle (17/10)	--	--	--	--
19	Variable cost in Rs/Kwh (17/11)	--	--	--	1.44

* GT= 1 & 2 also run on HSD

(PETITIONER)

Form 14 – Yearly Variable Cost Calculation (Gas as fuel)

Name of the Company : I.P.G.CL.

ENSUING YEAR (ESTIMATED)
2004-05

Name of the Power Station : Gas Turbine Power Station

S.No.	Details	Module-1	Module-2 & so on	Module-3	Station Total
1	No. of Unit (G.T.) (MW)	2x30+1x34	2x30+1x34	2x30+1x34	282
2	Unit Capacity (G.T.) (MW)	30x2	30x2	30x2	180
3	Unit Capacity (S.T.) (MW)	34	34	34	102
4	Gross Generation of GT's (MU)	186	385	252	823
5	Gross Generation of plant (MU)	280	572	348	1200
6	Auxiliary Consumption of GT's (MU)	--	--	--	--
7	Estimated Auxiliary Consumption of plant (MU)		--	--	36
8	Normative Aux. Cons. in Open Cycle	--	--	--	1 %
9	Normative Auxiliary Cons. in Comb. Cycle	--	--	--	3%
10	Net Gen. of GT's (4-6)	--	--	--	--
11	Net Gen. of plant (5-7)	--	--	--	1164
12	CNG consumption (SCM)	--	--	--	101 x 10 ⁶
13	Rate of CNG (Rs./SCM)				4.53505
14	Type of Liquid Fuel	HSD	HSD	HSD	
15	Liquid Fuel consumption (KL)	--	--	--	140
16	Rate of Liquid Fuel per KL (Rs)	--	--	--	17712.66*
17	LNG Consumption (SCM)				206 x 10 ⁶
18	Rate of LNG (Rs./SCM)				7.7
19	Total cost of fuel (12*13 + 15*16 + 17*18)				Rs.204.67 Cr.
20	Variable cost in Rs/Kwh in Open Cycle (19/10)	--	--	--	--
21	Variable cost in Rs/Kwh of plant(19/11)	--	--	--	1.76

* Escalation of 5 % over the last year's rate

(PETITIONER)

Form 15 – Macro Economic Parameters

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Details	Previous year
1	Exchange rates with dollar	
2	Exchange rate with Euro	
3	Inflation	
4	Brent Crude oil Price	
5	PLR (SBI)	
6	Bank Rate	
7	Effective Corporate Tax	
8	Industrial Growth Rate	
9	Service sector growth rate	
10	Agriculture Growth Rate	
11	Delhi Population growth rate	
12	Dearness allowance rate	
13	Average electricity tariff	

(PETITIONER)

Form 16 – Generation Tariff Calculation

Name of the Company : I.P.G.CL.

Name of the Power Station : Gas Turbine Power Station

S.No.	Details	Previous year (2002-03)	Current year (April-Oct,03) actual	Current Year (2003-04) Estimated	Ensuing Year (2004-05) Estimated
1	Gross Generation (MU)	903.715	659.456	1200	1200
2	Auxiliary Cons.(MU)	20.044	14.03	36	36
3	Net Generation (MU)	883.711	645.426	1164	1164
4	Per Unit Fixed Charges (Rs/Kwh)	0.66	0.71	0.69	0.79
5	Per Unit Variable cost (Rs/Kwh)	1.27	1.45	1.44	1.76
6	Generation Tariff (Rs/Kwh)	1.93	2.16	2.13	2.55

(PETITIONER)