



**ORDER**

**OF THE**

**WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**

**IN CASE NO.: FPPCA-48/10 – 11**

**IN RE THE APPLICATION OF THE WEST BENGAL POWER  
DEVELOPMENT CORPORATION LIMITED FOR FUEL COST  
ADJUSTMENT (FCA) FOR THE FINANCIAL YEAR  
2009 – 2010 IN ACCORDANCE WITH THE WEST BENGAL  
ELECTRICITY REGULATORY COMMISSION (TERMS AND  
CONDITIONS OF TARIFF) REGULATIONS, 2011.**

**DATE: 30.08.2012**



## CHAPTER – 1 INTRODUCTION

---

- 1.1 In terms of the provisions contained in the regulation 2.8.7.1 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2007, as amended (hereinafter referred to as the “Tariff Regulations, 2007”), the West Bengal Power Development Corporation Limited (in short “WBPDCCL”), a generating company, submitted its application on 09 November, 2010 for ascertaining the Fuel Cost Adjustments (in short “FCA”) separately for the following generating stations with extension units for the financial year 2009 – 2010.
- A) Kolaghat Thermal Power Station,
  - B) Bakreswar Thermal Power Station [(a) units I, II & III and (b) Units IV & V],
  - C) Bandel Thermal Power Station,
  - D) Santaldih Thermal Power Station [(a) Units I, II, III & IV and (b) Unit V],
  - E) Sagardighi Thermal Power Station
- 1.2 Subsequent to the date of the submission of aforesaid application by WBPDCCL, The West Bengal Electricity Regulatory Commission (hereinafter referred to as the “Commission) made the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 (hereinafter referred to as the “Tariff Regulations, 2011”) in supersession of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2007, as amended. The regulation 2.1.15 of the Tariff Regulations, 2011 has, however, provided for dealing with aforesaid application of WBPDCCL applying the formula specified in Schedule – 7A to the Tariff Regulations, 2011 on the basis of normative parameters as were used in the tariff order for 2009 – 2010 and also on the basis of regulation 4.8.1 of the Tariff Regulations, 2007.
- 1.3 WBPDCCL submitted in its application that part of the consumption of oil (L.D.O) at Kolaghat Thermal Power Station exceeding the norm stipulated in the Tariff



---

**Order on FCA of WBPDCCL for the year 2009-2010**

Regulations, 2007 was due to forced back-down when Area Load Despatch Centre (in short “ALDC”) of West Bengal State Electricity Distribution Company Limited (in short “WBSEDCL”) asked to de-synchronize the generating units. The de-synchronization of the units could be done only on obtaining clearance from ALDC. As such, since the de-synchronization and re-synchronization involving additional quantity of oil consumption were beyond the control of the generating station, WBPDCCL asked for allowing the recovery of an amount of Rs. 238.87 lakh in this regard through energy charges for the year 2009 – 2010.

- 1.4 WBPDCCL asked for allowing an additional amount of Rs. 19.04 lakh, being the cost of excess 48 KL of L.D.O. consumed at Kolaghat Thermal Power Station during 2008 – 2009 which was not considered by the Commission while finalizing the FCA for 2008 – 2009.
- 1.5 WBPDCCL highlighted that out of the four old generating units of 120 MW each at Santaldih Thermal Power Station, units III & IV, being under the process of de-commissioning, were permanently withdrawn from the operation. The units no. I & II also outlived their useful life and were taken out of operation from January, 2010 onwards. The consumption of coal and oil in the referred units could not be kept within the norms prescribed in the Tariff Regulations, 2007. WBPDCCL prayed for allowing at least a part of the excess expenditures incurred by it on this account.
- 1.6 The Commission has noted the submissions, as made by WBPDCCL. The issues raised by it will be examined and viewed in the subsequent parts of this order. The Commission has already ascertained the rates of energy charge for the new units at Sagardighi, Santaldih (Unit V) and Bakreswar (Units IV & V) Thermal Power Stations based on audited data for the year 2009 – 2010, vide Commission’s order dated 30.12.2011 in Cases No. TP-42/09-10, TP-45/09-10 and TP-46/09-10 for second control period covering the financial year 2008 – 2009, 2009 – 2010 and 2010 – 2011. At the outset, the Commission, therefore,



---

**Order on FCA of WBPDCCL for the year 2009-2010**

makes it clear that the instant order is to deal with the determination of amounts of admissible fuel costs for the old units at Kolaghat, Bakreswar (Units I, II & III), Bandel and Santaldih (Units I, II, III & IV) Thermal Power Stations.

- 1.7 The Fuel and Power Purchase Cost Adjustments (in short “FPPCA”) during the referred adjustment period, i.e., financial year 2009 – 2010, are to be ascertained in terms of the following formula as enunciated by the Commission and incorporated in Part – B in Schedule – 7A to the Tariff Regulations, 2011.

$$\text{FPPCA (In Rs.)} = \{FC + (PPC - C_D) + (\pm A)\} - (fc + ppc)$$

Where –

- i) The adjustment period for fuel and power purchase cost will normally be on annual basis, if not otherwise decided by the Commission.
- ii) FC (Rs) Fuel Cost of own generation as per normative parameters fixed by the Commission or on actual basis in absence of any norm and UHV range as may be allowed under regulation 5.8 of the Tariff Regulations, 2011, commensurate with actual level of energy sales by the generating company to the licensee during the adjustment period.
- iii) PPC (Rs) Total cost incurred including the cost for fuel for power purchase from different sources commensurate with actual level of pumped energy required by pumped storage hydro-generating station only.
- iv) C<sub>D</sub> (Rs) Cost disallowed by the Commission as having been incurred in breach of its economic generation, or of order / direction of the Commission, if any, or for any other reason considered



**Order on FCA of WBPDC for the year 2009-2010**

---

sufficient by the Commission during the adjustment period and adjusted corresponding to actual level of sales to the licensee.

- v) A (Rs.) Adjustment, if any, to be made in the current period to account for any claim due to excess / shortfall in fuel cost in the past adjustment period based on directions / orders of the Commission. (+A) shall be considered as the amount to be recovered from consumer and purchaser of electricity under the purview of the Commission when the generating company has already incurred that expenses. (-A) shall be considered as the amount to be refunded to the purchaser of electricity under the purview of the Commission because such amount of less expenses has been incurred by the generating company against any prior period adjustment.
  - vi) fc (Rs.) Fuel cost of own generation for sale to the licensee as allowed by the Commission in the tariff order corresponding to relevant adjustment period.
  - vii) ppc (Rs.) Power purchase cost allowed by the Commission for the relevant adjustment period in the tariff order for pumping energy required by pumped storage hydro-generating station only.
  - viii) FPPCA thus determined on normative basis will further be adjusted for gain sharing as per Schedule – 9B for the parameter related to fuel cost only.
- 1.8 The formula referred to above has two distinct parts. The first part is intended to arrive at the amount that should reasonably be recovered by a generating company from its energy recipients for the particular adjustment period under



---

#### Order on FCA of WBPDCCL for the year 2009-2010

consideration towards fuel and power purchase cost. The second part is meant for the total amount of such costs that was allowed to be recovered through the power tariff fixed by the Commission on prospective basis. The difference between the two amounts is to signify the amount that needs to be either additionally recovered from or refunded to the recipients of energy, as the case may be. The factor PPC and ppc in the referred formula stands for “power purchase cost” and are not applicable for WBPDCCL in the present case. The nomenclature of each of other factor notations used in the formula and value that needs to be assigned to each of such factors is being discussed in the next chapter. The instant order is for ascertaining the amounts of admissible fuel cost separately for each of the concerned generating stations applying the first part of the formula referred to above.

1.9 The schedule – 9B to the Tariff Regulations, 2011 contains provisions for sharing the gains, if any, derived by the generating company on account of its better performances over the operating and fuel consumption norms set by the Commission for the concerned year, with the energy recipient. The operational parameters which are to be considered for such sharing the gains are:

- i) Oil consumption rate,
- ii) Rate of Auxiliary Consumption,
- iii) Gross Station Heat Rate.

The referred schedule 9B to the Tariff Regulations, 2011 also provides that in case availability of a generating station of the generating company falls below the availability norms, then the total gains meant to be passed on to the energy recipients under above item, is first to be used to compensate the deficit in the recovery of the fixed charges, if any, by the generating company.



**Order on FCA of WBPDCCL for the year 2009-2010**

1.10 It, therefore, needs to view the actual performances of WBPDCCL in comparison to the operational and fuel efficiency norms set by the Commission in the Tariff Order for the concerned year. Such comparisons are made here:

SI No	Generating Station	Particulars	Unit	As per Tariff Order	As per Actual
1	Kolaghat	Plant Availability Factor	%	77.00	68.05
		Rate of Auxiliary Consumption	%	10.00	10.35
		Specific Consumption of Oil	ml/Kwh	2.10	2.39
		Station Heat Rate	KCal/kWh	2725.00	2781.709
2	Bakreswar	Plant Availability Factor	%	85.00	75.00
		Rate of Auxiliary Consumption	%	9.00	10.80
		Specific Consumption of Oil	ml/Kwh	1.50	1.54
		Station Heat Rate	KCal/kWh	2560.00	2595.30
3	Bandel	Plant Availability Factor	%	66.00	50.59
		Rate of Auxiliary Consumption	%	10.45	11.13
		Specific Consumption of Oil	ml/Kwh	3.00	6.11
		Station Heat Rate	KCal/kWh	2955.00	2975.025
4	Santalidih	Plant Availability Factor	%	38.00	7.77
		Rate of Auxiliary Consumption	%	11.10	12.92
		Specific Consumption of Oil	ml/Kwh	3.75	18.14
		Station Heat Rate	KCal/kWh	3150.00	4026.74

The computations of actual Station Heat Rates achieved are shown in Annexure – 1A.

1.11 As observed from above, actual performances of WBPDCCL relating to the referred factors did not qualify for deriving gains to share with WBSEDCL. It has, however, been stated by WBPDCCL that they had to incur excess consumption of LDO at Kolaghat generating station due to forced back down of units at the instance of ALDC of WBSEDCL/SLDC. WBPDCCL has claimed that they had to consume excess oil due to forceful de-synchronization and resynchronization of the units at Kolaghat generating station in May 2009, September 2009, November 2009 and December 2009. WBPDCCL has also claimed excess oil consumption for two cases of de-synchronization during the year 2008 – 2009 which were due to their own requirement and hence not considered. It is seen



---

**Order on FCA of WBPDCCL for the year 2009-2010**

from the documents submitted by WBPDCCL that the units at Kolaghat Thermal Power Station had to desynchronize as per the instructions from ALDC of WBSEDCL/SLDC due to low system demand for cyclonic weather in the following occasions and the Commission admits the same.

Units	Times of De-synchronization	Time of Light up	Time of Synchronization
5	25.05.2009 at 08.24 hrs	27.05.2009 at 01.00 hrs	27.05.2009 at 07.45 hrs
3	25.05.2009 at 10.49 hrs	27.05.2009 at 21.30 hrs	28.05.2009 at 03.32 hrs
2	25.05.2009 at 13.33 hrs	26.05.2009 at 14.52 hrs	26.05.2009 at 18.59 hrs
6	06.09.2009 at 23.33 hrs	07.09.2009 at 13.15 hrs	07.09.2009 at 18.36 hrs
2	06.09.2009 at 02.19 hrs	07.09.2009 at 05.35 hrs	07.09.2009 at 10.28 hrs
4	23.11.2009 at 02.16 hrs	28.11.2009 at 04.00 hrs	23.11.2009 at 11.42 hrs
3	23.11.2009 at 23.15 hrs	03.12.2009 at 22.00 hrs	04.12.2009 at 05.41 hrs
3	21.12.2009 at 21.30 hrs	27.12.2009 at 16.35 hrs	28.12.2009 at 01.20 hrs
3	17.02.2010 at 23.07 hrs	21.02.2010 at 12.35 hrs	21.02.2010 at 19.17 hrs

- 1.12 The Commission admits excess consumption of LDO of 445 KL for Kolaghat generating station for the above cases since de-synchronization and synchronization of the units were done as per instructions from SLDC / ALDC to help grid operation. The cost of such excess oil consumed comes at Rs. 170.07 lakh considering average price of oil as Rs. 38219.30 per KL.
- 1.13 WBPDCCL has also claimed excess fuel consumption at Santaldih Thermal Power Station to keep the units I & II running which are old units and passed its useful life long ago. They had to keep those old units running to tide over the chronic shortage of power particularly during the peak period. The Commission after going through the submission of WBPDCCL decides not to allow any excess fuel consumption as claimed by WBPDCCL for Santaldih generating station and to consider the fuel consumption of generating stations of WBPDCCL at Santaldih on normative basis as per provision of the Tariff Regulations, 2011.





## ANNEXURE - 1A COMPUTATIONS OF ACTUAL STATION HEAT RATES ACHIEVED IN 2009 -2010

SI No	Particulars	Unit	Stations			
			Kolaghat	Bakreswar (Unit I,II & III)	Bandel	Santaldih (Units I to IV)
1	Generation (Actual)	MU	7351.616	4296.446	2006.307	365.795
2	Consumption of Oil (Actual)	KL	17599.560	6635.300	12250.000	6637.191
3	Consumption of Coal (Actual)	MT	5947232.000	2905384.51	1358860.000	386626.56
4	GCV of Oil (Actual)	Kcal/Lit	9285.591	9448.655	9215.243	9423.689
5	Heat value of Coal (Actual)	Kcal/Kg	3411.105	3816.312	4309.441	3648.00
6	Heat from Oil (2X4/1000)	M.Kcal	163422.316	62694.661	112886.727	62546.823
7	Heat from Coal (3X5/1000)	M.Kcal	20286632.811	11087853.77	5855926.997	1410413.691
8	Total Heat used (6+7)	M.Kcal	20450055.127	11150548.43	5968813.724	1472960.514
9	Station Heat Rate achieved (8/1)	Kcal/kWh	2781.709	2595.30	2975.025	4026.74



## CHAPTER – 2 DETERMINATION OF ALLOWABLE FUEL COST

- 2.1 In this part of the order, the Commission takes up the determination of fuel cost allowable to WBPDCCL separately for each of its old generating stations in commercial operation using the factors FC, C<sub>D</sub> and  $\pm A$  of the formula referred to in the earlier chapter.
- 2.2 **Factors considered in Tariff Order:**
- 2.2.1 The consumption of fuel and costs thereon allowed to WBPDCCL for its different old operating generating stations for the year 2009 – 2010 were based on the following factors.

Sl. No.	Particulars	Unit	Generating stations			
			Kolaghat	Bakreswar (Unit I, II & III)	Bandel	Santalidih (Units I to IV)
(i)	Station Heat Rate (normative)	K.cal/kwh	2725.00	2560.00	2955.00	3150.00
(ii)	Rate of Oil Consumption	MI/kwh	2.10	1.50	3.00	3.75
(iii)	Calorific Value of Oil	K.cal/lit	9200.00	9475.00	9226.37	9400.00
(iv)	Average Heat value of Coal	K.cal/kg	4221.02	4703.83	4997.34	4998.88
(v)	Weighted Average Price of Oil	Rs/kl	46108.46	47733.96	46717.25	46867.82
(vi)	Weighted Average Price of Coal	Rs/MT	1758.77	1749.46	2111.65	1903.88

The first two of the above factors, i.e., the station heat rate and the rate of consumption of oil were the fuel usage norms adopted by the Commission. The weighted average calorific value of oil and the weighted average heat value of coal are the variable factors depending upon the actual mix of different grades of fuel used in operation. The declared heat value of each grade of coal varies within a range. The weighted average heat value of coal considered at the tariff fixation level was based on the mid value of the range of each projected grade of



coal and is subject to adjustments in terms of regulation 4.8.1(i) of the Tariff Regulations, 2007.

### 2.3 Determination of Allowable Fuel Cost:

2.3.1 On careful consideration of all the related facts and factors, the Commission worked out the amount of fuel cost that can be allowed to WBPDCCL for each of its referred generating stations in commercial operation for the actual level of sale of energy to WBSEDCL during 2009 – 2010 as shown hereunder:

Generating station	Amount (Rs. in Lakh)	
	As claimed	As found admissible
Kolaghat	125819.63	126683.01
Bakreswar	65695.44	64745.18
Bandel	38975.84	37423.42
Santaldih	6384.46	5865.99
<b>Total</b>	<b>236875.37</b>	<b>234717.60</b>

The detailed computations leading to the determination of such allowable fuel cost pertaining to the actual level of sales to WBSEDCL are shown in Annexure 2A to this chapter.

### 2.4 Explanatory Notes to Computations:

#### 2.4.1 Generation:

Admissible gross generation of each of the referred generating stations has been estimated considering normative auxiliary consumption commensurate with actual level of sales from each generating station to the licensee, i.e., energy injected as per schedule.

#### 2.4.2 Auxiliary Consumption:

The quantum of auxiliary consumptions at the generating station as per the norms fixed by the Commission is as under:



<b>Generating station</b>	<b>Scheduled Injection (MU)</b>	<b>Normative Rate (%)</b>	<b>Normative Auxiliary Consumption (MU)</b>	<b>Admissible Gross Generation (MU)</b>
Kolaghat	6515.692	10.00	723.966	7239.658
Bakreswar	3739.317	9.00	369.823	4109.140
Bandel	1762.693	10.45	205.697	1968.390
Santaldih	292.650	11.10	36.540	329.190
<b>Total</b>	<b>12310.352</b>		<b>1336.026</b>	<b>13646.378</b>

#### 2.4.3 Weighted Average GCV of Oil:

The weighted average gross calorific value of oil claimed by WBPDCCL for different generating stations was as follows:

<b>Generating station</b>	<b>GCV of Oil (k.cal/lit)</b>
Kolaghat	9285.591
Bakreswar (Units I, II & III)	9448.655
Bandel	9215.243
Santaldih	9423.689

WBPDCCL presented the detailed computations of the weighted average calorific value of oil for each of the generating stations with reference to the month-wise supplies received. As this is a variable factor depending on the grades of oil used, the Commission has considered the same for working out the amount of allowable fuel cost.

#### 2.4.4 Heat Value of Coal:

The weighted average heat value of coal is also a variable factor depending on the actual grade mix of coal consumption. As ascertained by WBPDCCL, the weighted average heat value of coal consumed at different generating station during 2009 – 2010 came as under:



<b>Generating station</b>	<b>Heat Value of Coal (k.cal/kg)</b>
Kolaghat	3411.105
Bakreswar	3816.312
Bandel	4309.441
Santaldih	3648.000

Above heat values, as submitted by WBPDCCL, compared with the minimum allowable heat values of respective generating stations computed as per regulation 4.8 of the Tariff Regulations, 2007. About 21% of the total quantum of coal consumed at Santaldih was washed coal having grades WIII and WIV. The heat value of such washed coal had been considered at par with those considered during the year 2008 – 2009. Also, heat value of ungraded coal has been considered as that of the lowest grade, i.e., grade G. The computations of the minimum allowable heat value of coal for different generating stations have been shown in Annexure – 2B to this chapter. As is observed from the computations in the aforesaid annexure, the actual heat value of coal received by WBPDCCL considerably fell short of the minimum heat value that can be admitted in terms of the Tariff Regulations. The position in this regard in respect of different generating stations will reveal from the comparative statement as under:

**Figures in k. cal/kg**

<b>Generating station</b>	<b>Heat value on the basis of minimum allowable Heat Value as per Regulations</b>	<b>Heat value stated as actual</b>	<b>Shortfall</b>
Kolaghat	3561.14	3411.105	150.03
Bakreswar (Units I, II & III)	4037.17	3816.312	220.86
Bandel	4731.42	4309.441	421.98
Santaldih	4217.11	3648.000	569.11

It has, however, been observed from the submissions made by WBPDCCL that grade slippages in coal supply had been compensated by the coal suppliers by issuing Credit Notes for the respective generating stations, as shown hereunder:



Rs. in Lakh

Generating stations	Amount of Credit Notes
Kolaghat	4727.13
Bakreswar	4388.74
Bandel	2147.46
Santaldih	992.51
<b>Total</b>	<b>12255.84</b>

The amounts so received had been adjusted by WBPDCCL while arriving at the average price of coal in the respective generating stations. The Commission, worked out the quantum of coal requirements at all the generating stations of WBPDCCL considering the minimum heat value in terms of the Tariff Regulations, 2007. The average price of coal, however, has been worked out considering the rate prior to the adjustments of the Credit Notes.

**2.4.5 Permitted Transit & Handling Loss of Coal:**

As specified in Part F of the Schedule 9A to the Tariff Regulations, 2007 transit and handling losses of coal allowable to WBPDCCL is 1.25% at Kolaghat, Bandel and Santaldih generating stations. The same is 1% for Bakreswar generating station. The allowable quantum of coal requirement at such provision of loss in different generating stations is shown in item no. 15 of the statement at Annexure – 2A.

**2.4.6 Average Price of Oil and Coal:**

As per the audited accounts for the year 2009 – 2010, vide item no. 25(6) of the Part B of Schedule 13 and the information furnished by WBPDCCL in their application in Annexure – II for the respective generating station, the weighted average price of Oil (Rs/KL) and weighted average price of Coal (Rs/MT) came as under:



Order on FCA of WBPDCCL for the year 2009-2010

Generating station	Average price of Oil (Rs/KL)	Average price of Coal (Rs/MT)
Kolaghat	38219.300	2170.140
Bakreswar (Old Units)	38672.870	2382.588
Bandel	38870.001	2848.371
Santaldih (Old Units)	36652.775	2198.746

The above rates were inclusive of freight / transportation charges.

**2.5 Additional Cost of Oil:**

2.5.1 As regards excess oil consumption at Kolaghat and Santaldih generating stations, the Commission's view has been given in paragraphs 1.11, 1.12 and 1.13 of the earlier chapter.

**2.6 C<sub>D</sub>: Cost Disallowable:**

2.6.1 The factor C<sub>D</sub>, as referred to in the formula vide paragraph 1.7, stands for cost as to be found disallowable by the Commission as having been incurred in breach of economic generation or of order / direction of the Commission, if any, or for any other reason considered sufficient by the Commission during the adjustment period and adjusted corresponding to actual level of sales. As can be seen in the statement at paragraph 1.10, the actual parameters of fuel usage of WBPDCCL in all the concerned generating stations were adverse to such usage norms fixed by the Commission. As the unit rates of energy charges from the generating stations have been worked out based on such adverse parameters, no further cost disallowance is required on this score.

**ANNEXURE - 2A**

SI No	Particulars	Unit	Stations				Overall
			Kolaghat	Bakreswar	Bandel	Santaldih	
1	Energy sold to licensee from the generating station (Scheduled injection)	MU	6515.692	3739.317	1762.693	292.650	12310.352
2	Rate of Auxiliary Consumption (normative)	%	10.00%	9.00%	10.45%	11.10%	
3	Auxiliary consumption (normative)	MU	723.966	369.823	205.697	36.540	1336.026
4	Admissible Gross Generation (1+3)	MU	7239.658	4109.140	1968.390	329.190	13646.378
5	Station Heat Rate (Normative)	Kcal/kWh	2725.00	2560.00	2955.00	3150.00	
6	Total Heat Required (4x5)	M.Kcal	19728068.050	10519398.400	5816592.450	1036948.500	
7	Specific Oil consumption (Normative)	ml/kWh	2.10	1.50	3.00	3.75	
8	Oil consumption (4x7)	KL	15203.282	6163.710	5905.170	1234.463	28506.624
9	Average GCV of Oil (Actual)	K.cal/lit	9285.591	9448.655	9215.243	9423.689	
10	Heat from oil (8x9)/1000	M.Kcal	141171.457	58238.769	54417.577	11633.191	
11	Heat from coal (6-10)	M.Kcal	19586896.593	10461159.631	5762174.873	1025315.309	
12	Heat value of coal	K.cal/Kg	3561.14	4037.17	4731.42	4217.11	
13	Coal consumption (11/12) x1000	MT	5500175.953	2591211.079	1217853.176	243132.218	9552372.426
14	Coal requirement with permissible transit loss	MT	5569798.433	2617384.928	1233269.039	246209.841	9666662.242
15	Average price of oil	Rs/KL	38219.300	38672.870	38870.001	36652.775	
16	Average price of coal	Rs/MT	2170.14	2382.588	2848.371	2198.746	
17	Cost of oil (8x15)/100000	Rs lakh	5810.59	2383.68	2295.34	452.46	10942.07
18	Cost of coal (14x16)/100000	Rs lakh	120872.42	62361.50	35128.08	5413.53	223775.53
19	Cost of Fuel (17+18)	Rs lakh	126683.01	64745.18	37423.42	5865.99	234717.60





## Annexure – 2B

COMPUTATION OF HEAT VALUE OF COAL BASED ON MINIMUM OF DECLARED HEAT VALUE							
GRADE OF COAL	% OF USE	DECLARED MINIMUM UHV (K.CAL/KG)	DIFFERENCE OF MAXIMUM & MINIMUM	MULTIPLICATION FACTOR	VALUE TO BE ADDED TO MINIMUM	MINIMUM AVERAGE VALUE ALLOWABLE (K.CAL/KG)	PRODUCT (K.CAL/KG) (2)X(7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>KOLAGHAT</b>							
A	0.71	6200.00	0.00	0.10	0.00	6200.00	4402.00
B	14.97	5600.00	600.00	0.10	60.00	5660.00	84730.20
C	4.30	4940.00	660.00	0.10	66.00	5006.00	21525.80
D	6.28	4200.00	740.00	0.10	74.00	4274.00	26840.72
E	18.72	3360.00	840.00	0.10	84.00	3444.00	64471.68
F	37.74	2400.00	960.00	0.10	96.00	2496.00	94199.04
G	4.73	1300.00	1100.00	0.10	110.00	1410.00	6669.30
WIII	2.27	4838.00	0.00	0.10	0.00	4838.00	10982.26
WIV	10.16	4146.00	0.00	0.10	0.00	4146.00	42123.36
Ungraded	0.12	1300.00	1100.00	0.10	110.00	1410.00	169.20
<b>TOTAL</b>	<b>100.00</b>						<b>356113.56</b>
<b>Minimum allowable</b>							<b>3561.14</b>
<b>Actual</b>							<b>3411.11</b>
<b>Allowed</b>							<b>3561.14</b>
<b>BAKRESWAR</b>							
A	2.82	6200.00	0.00	0.10	0.00	6200.00	17484.00
B	18.00	5600.00	600.00	0.10	60.00	5660.00	101880.00
C	18.40	4940.00	660.00	0.10	66.00	5006.00	92110.40
D	16.47	4200.00	740.00	0.10	74.00	4274.00	70392.78
E	13.16	3360.00	840.00	0.10	84.00	3444.00	45323.04
F	27.00	2400.00	960.00	0.10	96.00	2496.00	67392.00
G	2.70	1300.00	1100.00	0.10	110.00	1410.00	3807.00
Washed	1.20	4146.00	0.00	0.10	0.00	4146.00	4975.20
Ungraded	0.25	1300.00	1100.00	0.10	110.00	1410.00	352.50
<b>TOTAL</b>	<b>100.00</b>				<b>490.00</b>		<b>403716.92</b>
<b>Minimum allowable</b>							<b>4037.17</b>
<b>Actual</b>							<b>3816.31</b>
<b>Allowed</b>							<b>4037.17</b>
<b>BANDEL</b>							
A	10.79	6200.00	0.00	0.10	0.00	6200.00	66898.00
B	35.76	5600.00	600.00	0.10	60.00	5660.00	202401.60
C	16.98	4940.00	660.00	0.10	66.00	5006.00	85001.88
D	3.40	4200.00	740.00	0.10	74.00	4274.00	14531.60
E	22.96	3360.00	840.00	0.10	84.00	3444.00	79074.24
F	10.11	2400.00	960.00	0.10	96.00	2496.00	25234.56
<b>TOTAL</b>	<b>100.00</b>						<b>473141.88</b>
<b>Minimum allowable</b>							<b>4731.42</b>
<b>Actual</b>							<b>4309.44</b>
<b>Allowed</b>							<b>4731.42</b>



Order on FCA of WBPDC for the year 2009-2010

<b>SANTALDIH</b>							
B	25.40	5600.00	600.00	0.10	60.00	5660.00	143764
C	11.87	4940.00	660.00	0.10	66.00	5006.00	59421.22
D	5.93	4200.00	740.00	0.10	74.00	4274.00	25344.82
E	15.24	3360.00	840.00	0.10	84.00	3444.00	52486.56
F	20.64	2400.00	960.00	0.10	96.00	2496.00	51517.44
WIII	3.53	4838.00	0.00	0.10	0.00	4838.00	17078.14
WIV	17.39	4146.00	0.00	0.10	0.00	4146.00	72098.94
<b>Total</b>	<b>100.00</b>						<b>421711.12</b>
<b>Minimum allowable</b>							<b>4217.11</b>
<b>Actual</b>							<b>3648.00</b>
<b>Allowed</b>							<b>4217.11</b>



## CHAPTER – 3 ORDER

- 3.1 As per the findings narrated in the preceding chapter, WBPDCCL is entitled to an additional recovery of Rs. 41708.72 lakh in respect of Kolaghat, Bakreswar (Units I, II & III), Bandel and Santaldih (Units I & II) thermal power stations towards Fuel Cost Adjustments (FCA) for the year 2009 – 2010 from its energy recipient i.e., WBSEDCL as per the generating station wise break-up given below:

Generating Station	Sales (MU)	Amount of fuel cost recovered during 2009 – 2010 (Rs./lakh)	Amount admitted for excess oil consumed as per para 1.12	Amount of fuel cost admitted in FPPCA for 2009 – 2010 (Rs./lakh)	Balance amount recoverable for 2009 – 2010 (Rs./lakh)
Kolaghat	6515.692	107510.79	170.07	126683.01	19342.29
Bakreswar (Units I, II & III)	3739.317	51549.61	-	64745.18	13195.57
Bandel	1762.693	29413.79	-	37423.42	8009.63
Santaldih (Units I & II)	292.650	4704.76	-	5865.99	1161.23
<b>Total</b>	<b>12310.352</b>	<b>193178.95</b>	<b>170.07</b>	<b>234717.60</b>	<b>41708.72</b>

- 3.2 In accordance with the provisions of regulation 2.8.7.1 of the Tariff Regulations, 2011 the Commission decides to allow WBPDCCL to recover the aforesaid amounts from its energy recipient i.e., WBSEDCL in 18 (eighteen) equal monthly instalments through energy bill for the consumption month of August, 2012 and onwards.
- 3.3 WBPDCCL is directed to take note of this order of the Commission.

**Sd/-**  
**(SUJIT DASGUPTA)**  
**MEMBER**

**Sd/-**  
**(PRASADRANJAN RAY)**  
**CHAIRPERSON**

**DATE: 30.08.2012**