



**ORDER**

**OF THE**

**WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**

**IN CASE NO.: FPPCA-61/12 – 13**

**IN RE THE APPLICATION OF THE WEST BENGAL  
POWER DEVELOPMENT CORPORATION LIMITED  
FOR FUEL COST ADJUSTMENT (FCA)  
FOR THE FINANCIAL YEAR  
2011 – 2012**

**DATE: 04.07.2013**



## CHAPTER – 1 INTRODUCTION

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- 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, 2011, as amended, the West Bengal Power Development Corporation Limited (in short “WBPDCCL”), a generating company, submitted its application on 2<sup>nd</sup> November, 2012 for ascertaining the Fuel Cost Adjustments (in short “FCA”) separately for each of the following generating stations for the financial year 2011 – 2012.
- A) Kolaghat Thermal Power Station (KTPS),
  - B) Bakreswar Thermal Power Station (BkTPS),
  - C) Bandel Thermal Power Station (BTPS),
  - D) Santaldih Thermal Power Station (STPS),
  - E) Sagardighi Thermal Power Station (SgTPS)
- 1.2 The West Bengal Electricity Regulatory Commission (hereinafter referred to as the “Commission”) published the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 on 29<sup>th</sup> April, 2011 with effect from the date of its publication and made some amendment to the said West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 by notifying the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2012 in the extra ordinary edition of the Kolkata Gazette dated 27<sup>th</sup> August, 2012. Hereinafter the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulation, 2011 with its amendment is to be referred to as “Tariff Regulations, 2011”. 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 2011 – 2012 and also on the basis of regulation 5.8.1 of the Tariff Regulations, 2011.



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- 1.3 WBPDCCL submitted in its application that part of the consumption of oil (L.D.O) at KTPS, BkTPS and BTPS exceeding the norm stipulated in the Tariff Regulations, 2011 was due to forced back-down on several occasions when State Load Despatch Centre (in short "SLDC") / 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 re-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 prayed for allowing the recovery of an amount of Rs. 189.72 lakh in this regard through energy charges for the year 2011 – 2012.
- 1.4 WBPDCCL has also submitted that for the year 2010 – 2011, prayer was made to the Commission for allowing recovery of Rs. 282.99 lakh towards additional cost of LDO consumed by KTPS, BkTPS, BTPS and SgTPS on similar ground. It is also stated that only a part of the said claim on account of KTPS amounting to Rs. 13.04 lakh was considered while finalizing the FCA for 2010 – 2011 by the Commission. The remaining portion of the claim was disallowed by the Commission on the ground that excess LDO consumption due to low system demand in normal condition had already been taken into consideration during fixation of norm.
- 1.5 WBPDCCL has further submitted that the excess consumption of LDO is due to forced back down of units at the instance of ALDC of WBSEDCL/SLDC which is beyond the control of the power stations. Further, factors which were considered while determining the operating norms for consumption of LDO have nowhere been stipulated in the Tariff Regulations, 2011. In view of the above, WBPDCCL has requested the Commission to review the FCA order dated 16.10.2012 for the year 2010 – 2011 on this aspect and allow to recover the remaining claim with the claim to be recovered through FCA for the year 2011 – 2012. Accordingly,



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disallowed portion of Rs. 269.95 lakh (Rs. 282.99 lakh – Rs. 13.04 lakh) has been claimed by WBPDCCL as per factor A of the FCA formula regarding the adjustment, if any, to be made in the current period to account for any excess / shortfall in the recovery of fuel cost for the past period. Relevant documentary evidences in support of the claim relating to 2010 – 2011 have been annexed to their application. Thus, WBPDCCL has claimed on account of excess consumption of LDO to the tune of Rs. 459.67 lakh (Rs. 189.72 lakh + Rs. 269.95 lakh) for FCA for the year 2011 – 2012.

- 1.6 The Commission has noted the submissions, as made by WBPDCCL. The issues raised by WBPDCCL will be examined and viewed in the subsequent part of this order. Upon submission of FCA by WBPDCCL for the year 2011 – 2012 the Commission proceeds to determine the amounts of admissible fuel costs for the generating stations at Kolaghat, Bakreswar, Bandel, Santaldih and Sagardighi.
- 1.7 The Fuel and Power Purchase Cost Adjustments (in short “FPPCA”) during the referred adjustment period, i.e., financial year 2011 – 2012, 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 commensurate with actual level of energy sales by the



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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)  $C_D$  (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 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



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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 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. 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.



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The paragraph D of 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.

- 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 hereunder:

Sl No	Generating Station	Particulars	Unit	As per Tariff Order	As per Actual
1	Kolaghat	Rate of Auxiliary Consumption	%	9.80	10.29
		Specific Consumption of Oil	ml/Kwh	2.00	2.48
		Station Heat Rate	KCal/kWh	2700.00	2772.32
2	Bakreswar	Rate of Auxiliary Consumption	%	9.00	9.48
		Specific Consumption of Oil	ml/Kwh	1.30	1.00
		Station Heat Rate	KCal/kWh	2500.00	2426.49
3	Bandel	Rate of Auxiliary Consumption	%	10.15	11.65
		Specific Consumption of Oil	ml/Kwh	2.75	6.63
		Station Heat Rate	KCal/kWh	2900.00	2964.47
4	Santaldih	Rate of Auxiliary Consumption	%	9.00	9.53
		Specific Consumption of Oil	ml/Kwh	1.00	2.69
		Station Heat Rate	KCal/kWh	2425.00	2490.79
	Sagardighi	Rate of Auxiliary Consumption	%	9.00	11.48
		Specific Consumption of Oil	ml/Kwh	1.00	2.07
		Station Heat Rate	KCal/kWh	2345.00	2631.91

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 except Bakreswar generating station where the actual rate of oil consumption and actual Station Heat Rate (SHR) is less than the norm.



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- 1.12 It has, however, been stated by WBPDCCL that excess consumption of LDO at Kolaghat, Bakreswar and Bandel generating stations is 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 such forced de-synchronization and re-synchronization of the units at Kolaghat, Bakreswar and Bandel generating stations. It is seen from the documents submitted by WBPDCCL that the units at Kolaghat, Bakreswar and Bandel generating Stations had to de-synchronize as per the instructions from ALDC of WBSEDCL/SLDC due to low system demand in normal condition which are taken into consideration during fixation of norm. Moreover, the consumption of oil at BkTPS is less than the norms. The Commission does not consider the claim of excess consumption of oil at Kolaghat, Bakreswar and Bandel generating stations for 2011 – 2012. The Commission in the FCA order for 2010 – 2011 admitted a portion of claim of WBPDCCL on account of excess oil consumption at Kolaghat generating station only and disallowed the rest portion of claim of WBPDCCL after due consideration. There is no reason to reconsider the decision of the Commission given in the FCA order dated 16.10.2012 for 2010 – 2011 further.
- 1.13 As it comes out from above, the rate of oil consumption and station heat rate in respect of Bakreswar generating station came lower than the rates considered in the tariff order. All other parameters as per the actual performance of WBPDCCL fall short of the norms set by the Commission. In terms of provision contained in paragraph A1 of the Schedule 9B to the Tariff Regulations, 2011 WBPDCCL needs to share the gains derived by it by improving the oil consumption norm and station heat rate in respect of Bakreswar generating station. Such gains are to be shared with WBSEDCL, the lone purchaser of entire generation of WBPDCCL. This aspect will be further examined and considered in the next chapter.





## ANNEXURE - 1A COMPUTATIONS OF ACTUAL STATION HEAT RATES ACHIEVED IN 2011 -2012

SI No	Particulars	Unit	Stations				
			Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi
1	Generation (Actual)	MU	7560.883	7725.426	1862.103	2581.596	4078.030
2	Consumption of Oil (Actual)	KL	18782.01	7723.65	12349.00	6941.87	8430.11
3	Consumption of Coal (Actual as per submission)	MT	6451686.00	5073534.00	1688201.00	1802932.00	2925305.00
4	GCV of Oil (Actual as per submission)	Kcal/Lit	9437.27	9465.37	9424.21	9277.86	9391.77
5	Heat value of Coal (Actual as per submission)	Kcal/Kg	3221.4715	3680.3903	3200.9060	3530.8151	3641.9517
6	Heat from Oil (2X4/1000)	M.Kcal	177250.90	73107.21	116379.56	64405.67	79173.62
7	Heat from Coal (3X5/1000)	M.Kcal	20783922.58	18672585.32	5403772.71	6365819.53	10653819.52
8	Total Heat used (6+7)	M.Kcal	20961173.48	18745692.53	5520152.27	6430225.20	10732993.14
9	Station Heat Rate achieved (8/1)	Kcal/kWh	2772.32	2426.49	2964.47	2490.79	2631.91



## 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 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 generating stations in operation for the year 2011 – 2012 were based on the following factors.

Sl. No.	Particulars	Unit	Generating stations				
			Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi
(i)	Station Heat Rate (normative)	K.cal/kwh	2700.00	2500.00	2900.00	2425.00	2345.00
(ii)	Rate of Oil Consumption (normative)	MI/kwh	2.00	1.30	2.75	1.00	1.00
(iii)	Calorific Value of Oil	K.cal/lit	9437.270	9465.370	9424.209	9277.856	9391.766
(iv)	Average Heat value of Coal	K.cal/kg	3342.76	3699.90	3241.63	3704.59	3641.95
(v)	Weighted Average Price of Oil	Rs/kl	45530.70	42848.91	46921.69	45609.09	46699.27
(vi)	Weighted Average Price of Coal	Rs/MT	2363.23	2671.96	2382.33	3228.71	2528.59

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 minimum value of the range of each projected grade of coal and is subject to adjustments in terms of regulation 5.8.1(i) of the Tariff Regulations, 2011.



### 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 2011 – 2012 as shown hereunder:

Generating station	Amount (Rs. in Lakh)
	As found admissible
Kolaghat	149213.08
Bakreswar	142313.49
Bandel	40962.15
Santaldih	55252.74
Sagardighi	66070.85
<b>Total</b>	<b>453812.31</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 as per scheduled injection.

#### 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:



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Generating station	Scheduled Injection	Normative Rate (%)	Normative Auxiliary Consumption including UI (out) (MU)	Admissible Gross Generation
Kolaghat	6723.385	9.80	730.479	7453.864
Bakreswar	6957.890	9.00	688.143	7646.033
Bandel	1629.756	10.15	184.107	1813.863
Santaldih	2319.194	9.00	229.371	2548.565
Sagardighi	3575.901	9.00	353.661	3929.562
Total	21206.126		2185.761	23391.887

**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:

Generating station	GCV of Oil (k.cal/lit)
Kolaghat	9437.270
Bakreswar	9465.370
Bandel	9424.209
Santaldih	9277.856
Sagardighi	9391.766

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 stations during 2011 – 2012 came as under:



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<b>Generating station</b>	<b>Heat Value of Coal (k.cal/kg)</b>
Kolaghat	3221.47
Bakreswar	3680.39
Bandel	3200.91
Santaldih	3530.82
Sagardighi	3641.95

For Sagardighi generating station above, the weighted average heat value of coal consumed has been found to be 3641.95 Kcal/Kg as at Annexure – 2G instead of 3376.99 Kcal/Kg as submitted by WBPDCCL in Annexure-III of the FPPCA application for 2011 – 2012. Above heat values have been viewed with reference to the quantitative accounts of grade-wise coal consumption of the concerned generating stations, as submitted by WBPDCCL, the declared heat value of different grades of coal varying within a range and the minimum allowable heat value in terms of provision of regulation 5.8 of the Tariff Regulations, 2011. The weighted average heat value of coal for each generating station as claimed by WBPDCCL has been checked with month wise data submitted by WBPDCCL in the petition and shown in annexure 2G. The computations of the minimum allowable heat value of coal for different generating stations have been shown in Annexure – 2B to 2F to this chapter. In this context it is to be mentioned that the minimum allowable heat value of coal is considered based on UHV value of each grade of coal as notified by Coal India Limited (in short 'CIL') for the first nine month of financial year 2011 – 2012 i.e., for the month of April 2011 to December 2011. But for the last three months the GCV value of each grade as notified by CIL effective from 1.1.2012 has been converted to UHV as per regulation 5.8.15 of the Tariff Regulations, 2011. As is observed from the computations in the aforesaid annexures, the actual heat value of coal received by WBPDCCL marginally fell short of the minimum heat value that can be admitted in terms of the Tariff Regulations, 2011 except Sagardighi generating station. The admitted heat value of coal for different generating stations thus comes as under:



<b>Generating station</b>	<b>Heat Value of Coal (k.cal/kg)</b>
Kolaghat	3342.76
Bakreswar	3699.90
Bandel	3241.63
Santaldih	3704.59
Sagardighi	3641.95

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

As specified in Part F of the Schedule 9A to the Tariff Regulations, 2011 transit and handling losses of coal allowable to WBPDCCL is 0.80% for Kolaghat, Bandel, Santaldih and Sagardighi generating stations. The same is 0.50% 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 Notes on Accounts under note 31-B to the audited annual accounts for the year 2011 – 2012, vide item no. 32(a) and 32(b), the weighted average price of Oil (Rs/KL) and weighted average price of Coal (Rs/MT) came as under:

<b>Generating station</b>	<b>Average price of Oil (Rs/KL)</b>	<b>Average price of Coal (Rs/MT)</b>
Kolaghat	45530.70	2363.23
Bakreswar	42848.91	2671.96
Bandel	46921.69	2382.33
Santaldih	45609.09	3228.71
Sagardighi	46699.27	2528.59

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, Bakreswar, Bandel and Santaldih generating stations, as claimed by WBPDCCL and explained in paragraph 1.12 of preceding chapter, the Commission does not allow any excess oil consumption for any generating station for the year 2011 – 2012.

**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, except Bakreswar 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 normative parameters, no further cost disallowance is required on this score.

2.7 As referred to in paragraph 1.13, WBPDCCL is to share of gains derived by it in monetary terms for economic use of oil and better station heat rate at Bakreswar generating station. The share of gains attributable to WBSEDCL, the lone energy recipient, works out as under:

a) Computation of share of gain for better Oil Consumption Rate:

Sl. No.	Particulars	Unit	Bakreswar
1	Oil allowed in fuel cost (vide item No. 8 in Annexure 2A)	KL	9939.843
2	Actual quanta of Oil used @ 1.00 ml/kWh on admissible gross generation of 7646.033 MU	KL	7646.033
3	Savings in use of Oil (1-2)	KL	2293.810
4	Price of Oil (vide item 16 in Annexure – 2A)	Rs. / KL	42848.91



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5	Total Gains	Rs in Lakh	982.873
6	Category of generating station for gain sharing in terms of Section A of Schedule 9B to the Tariff Regulations	-	B
7	Share attributable to WBSEDCL	%	40%
8	Share of WBSEDCL	Rs in Lakh	393.15

b) Computation of share of gain for better Station Heat Rate:

The share of gain for better station heat rate at Bakreswar generating station comes to Rs. 1165.42 lakh. The computation in this regard is given as under:

SI no	Particulars	Factor	Unit	Amount
1	Design Station Heat Rate	D	Kcal/kWh	2258
2	Gross Station Heat Rate considered for the year	SHRn	Kcal/kWh	2500
3	Ratio of SHRn to D			1.11
4	Categorization of Generating Station as per Regulation			C
5	Station Heat Rate Achieved for the year	SHR		2426.49
6	SHR/SHRn		0.970596	Less than 0.98 and greater than 0.97
7	Admissible gross generation vide SI no 4 in Annexure 2A		MU	7646.033
8	Cost of coal allowed vide sl no 9 in Annexure 2A		Rs in Lkh	138054.38
9	Actual gross generation		MU	7725.426
10	Actual coal used including loss as per submission		MT	5073534.000
11	Coal consumed proportionate to admissible gross generation		MT	5021394.081
12	Price of coal		Rs/MT	2671.96
13	Cost of coal proportionate to admissible Gross Generation		Rs in Lakh	134169.64
14	Savings in cost of coal for achieving better Station Heat rate		Rs in Lakh	3884.74
15	Share of savings in cost attributable to WBSEDCL		%	30%
16	Share of savings in cost attributable to WBSEDCL		Rs. In Lakh	1165.42

2.8 But as already mentioned in paragraph 1.9, the total gain to be passed on to the energy recipient is first to be used to compensate the deficit in the recovery of fixed charges, in case availability of any generating station of WBPDCCL falls below the availability norm. As the recovery of fixed charge as per availability will be determined in the Annual Performance Review (APR) of WBPDCCL for the





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year 2011 – 2012, the matter of gain sharing, if any will be viewed in the APR order for 2011 – 2012.

- 2.9 Summing up the findings as explained in the earlier paragraphs, the amounts of admissible fuel cost for different generating station of WBPDCCL for the year 2011 – 2012 come as under:

Particulars	Unit	Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi	Overall
Total admissible fuel cost as per norms (FC as per annexure 2A)	Rs. in Lakh	149213.08	142313.49	40962.15	55252.74	66070.85	453812.31
C <sub>D</sub> (Cost disallowed)	Rs. in Lakh	0.00	0.00	0.00	0.00	0.00	0.00
A (+) (Adjustment)	Rs. in Lakh	0.00	0.00	0.00	0.00	0.00	0.00
Fuel cost admitted	Rs. in Lakh	149213.08	142313.49	40962.15	55252.74	66070.85	453812.31

**ANNEXURE - 2A**

SI No	Particulars	Unit	Stations				
			Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi
1	Energy sold to licensee from the generating station (Scheduled injection)	MU	6723.385	6957.890	1629.756	2319.194	3575.901
2	Rate of Auxiliary Consumption (normative)	%	9.80%	9.00%	10.15%	9.00%	9.00%
3	Auxiliary consumption (normative) including UI (out)	MU	730.479	688.143	184.107	229.371	353.661
4	Admissible Gross Generation (1+3)	MU	7453.864	7646.033	1813.863	2548.565	3929.562
5	Station Heat Rate (Normative)	Kcal/kWh	2700.00	2500.00	2900.00	2425.00	2345.00
6	Total Heat Required (4×5)	M.Kcal	20125432.800	19115082.500	5260202.700	6180270.125	9214822.890
7	Specific Oil consumption (Normative)	ml/kWh	2.00	1.30	2.75	1.00	1.00
8	Oil consumption (4×7)	KL	14907.728	9939.843	4988.123	2548.565	3929.562
9	Average GCV of Oil (Actual)	K.cal/lit	9437.270	9465.370	9424.209	9277.856	9391.766
10	Heat from oil (8×9)/1000	M.Kcal	140688.254	94084.292	47009.114	23645.219	36905.527
11	Heat from coal (6-10)	M.Kcal	19984744.546	19020998.208	5213193.586	6156624.906	9177917.363
12	Heat value of coal	K.cal/Kg	3342.760	3699.900	3241.630	3704.590	3641.950
13	Coal consumption (11/12) ×1000	MT	5978516.120	5140949.271	1608201.302	1661891.034	2520055.839
14	Permissible transit loss	%	0.80	0.50	0.80	0.80	0.80
15	Coal requirement with permissible transit loss	MT	6026729.960	5166783.187	1621170.667	1675293.381	2540378.870
16	Average price of oil	Rs/KL	45530.70	42848.91	46921.69	45609.09	46699.27
17	Average price of coal	Rs/MT	2363.23	2671.96	2382.33	3228.71	2528.59
18	Cost of oil (8×16)/100000	Rs lakh	6787.59	4259.11	2340.51	1162.38	1835.08
19	Cost of coal (15×17)/100000	Rs lakh	142425.49	138054.38	38621.64	54090.36	64235.77
20	Cost of Fuel (18+19)	Rs lakh	149213.08	142313.49	40962.15	55252.74	66070.85



## Annexure – 2B Computation of UHV of Coal based on Minimum of declared Heat Value

### KOLAGHAT THERMAL POWER STATION

Period : April 2011 to December 2011					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per Notification	LOWER UHV VALUE OF GRADE (Kcal/Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	GRADE-A	7888.50		6200	48908700.00
	GRADE-B	117150.43		5600	656042408.00
	GRADE-C	65538.66		4940	323760980.40
	GRADE-D	59778.91		4200	251071422.00
	GRADE-E	49676.59		3360	166913342.40
	GRADE-F	7168.80		2400	17205120.00
	GRADE-G	3309.30		1850	6122205.00
MCL	GRADE-D	63037.27		4200	264756534.00
	GRADE-E	77441.33		3360	260202868.80
	GRADE-F	2154593.25		2400	5171023800.00
BECML	GRADE-C	191125.10		4940	944157994.00
	GRADE-D	189844.70		4200	797347740.00
	GRADE-E	59286.70		3360	199203312.00
BCCL	GRADE-D	706554.29		4200	2967528018.00
	GRADE-E	575733.62		3360	1934464963.20
IMPORT	GRADE-B	341661.26		5600	1913303056.00
OTHER (DIVERTED)	GRADE-F	196497.61		2400	471594264.00
<b>Sub Total : (A)</b>		<b>4866286.32</b>			<b>16393606727.80</b>



**Order on FCA of WBPDCCL for the year 2011-2012**

Period : January 2012 to March 2012					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per CIL Notification	LOWER UHV VALUE OF GRADE AS Per Regulation 5.8.15 of Tariff Regulations (Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	G3	11143.21	Exceeding 6400 & not exceeding 6700	6200	69087902.00
	G4	151072.90	Exceeding 6100 & not exceeding 6400	5600	846008240.00
	G5	159415.43	Exceeding 5800 & not exceeding 6100	4940	787512224.20
	G6	26959.32	Exceeding 5500 & not exceeding 5800	4940	133179040.80
	G7	102782.70	Exceeding 5200 & not exceeding 5500	4200	431687340.00
MCL	G12	374145.57	Exceeding 3700 & not exceeding 4000	2400	897949368.00
	G13	384990.18	Exceeding 3400 & not exceeding 3700	1300	500487234.00
BECML	G6	109434.20	Exceeding 5500 & not exceeding 5800	4940	540604948.00
BCCL	G8	152163.89	Exceeding 4900 & not exceeding 5200	4200	639088338.00
	G9	93490.64	Exceeding 4600 & not exceeding 4900	3360	314128550.40
IMPORT	G6	17275.36	Exceeding 5500 & not exceeding 5800	4940	85340278.40
OTHER (DIVERTED)	G13	39489.69	Exceeding 3400 & not exceeding 3700	1300	51336597.00
<b>Sub Total : (B)</b>		<b>1622363.09</b>			<b>5296410060.80</b>
<b>TOTAL : (A) + (B)</b>		<b>6488649.41</b>			<b>21690016788.60</b>
<b>Value of 'X' = <math>\{ \sum(\text{UHVgm} \times \text{CLWTg}) \} / \sum \text{CLWTg} = [ (6) / (3) ]</math></b>					<b>3342.76</b>
<b>Actual Weighted average Heat value of coal</b>					<b>3221.47</b>
<b>Allowable heat value of coal</b>					<b>3342.76</b>



## Annexure – 2C Computation of UHV of Coal based on Minimum of declared Heat Value

### BAKRESWAR THERMAL POWER STATION

Period : April 2011 to December 2011					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per Notification	LOWER UHV VALUE OF GRADE ( Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWTg]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	GRADE-B	264518.92		5600	1481305952.00
	GRADE-C	65528.10		4940	323708814.00
	GRADE-D	14217.00		4200	59711400.00
	GRADE-E	20295.24		3360	68192006.40
	GRADE-F	4813.93		2400	11553432.00
MCL	GRADE-F	1835962.32		2400	4406309568.00
BECML	GRADE-B	118055.28		5600	661109568.00
	GRADE-C	306770.66		4940	1515447060.40
	GRADE-D	165787.76		4200	696308592.00
	GRADE-E	72757.11		3360	244463889.60
	GRADE-F	39786.40		2400	95487360.00
	GRADE-G	32863.50		1850	60797475.00
BCCL	GRADE-D	462035.84		4200	1940550528.00
	GRADE-E	73936.41		3360	248426337.60
	GRADE-F	1557.90		2400	3738960.00
IMPORT	GRADE-B	285070.29		5600	1596393624.00
OTHER (DIVERTED)	GRADE-B	408579.13		5600	2288043128.00
	GRADE-C	147989.24		4940	731066845.60
	GRADE-F	127383.78		2400	305721072.00
<b>Sub Total : (A)</b>		<b>4447908.81</b>			<b>16738335612.60</b>



**Order on FCA of WBPDCCL for the year 2011-2012**

Period : January 2012 to March 2012					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per CIL Notification	LOWER UHV VALUE OF GRADE AS Per Regulation 5.8.15 of Tariff Regulations (Kcal/	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	G4	325626.94	Exceeding 6100 & not exceeding 6400	5600	1823510864.00
	G5	196630.50	Exceeding 5800 & not exceeding 6100	4940	971354670.00
	G6	10775.70	Exceeding 5500 & not exceeding 5800	4940	53231958.00
	G7	25777.10	Exceeding 5200 & not exceeding 5500	4200	108263820.00
	G8	50369.60	Exceeding 4900 & not exceeding 5200	4200	211552320.00
MCL	G9	504.26	Exceeding 4600 & not exceeding 4900	3360	1694313.60
	G13	544328.98	Exceeding 3400 & not exceeding 3700	1300	707627674.00
BECML	G4	72942.15	Exceeding 6100 & not exceeding 6400	5600	408476040.00
	G6	187994.59	Exceeding 5500 & not exceeding 5800	4940	928693274.60
BCCL	G8	1085.40	Exceeding 4900 & not exceeding 5200	4200	4558680.00
	G9	145573.25	Exceeding 4600 & not exceeding 4900	3360	489126120.00
IMPORT	G6	6930.83	Exceeding 5500 & not exceeding 5800	4940	34238300.20
OTHER (DIVERTED)	G4	41795.24	Exceeding 6100 & not exceeding 6400	5600	
	G13	27409.24	Exceeding 3400 & not exceeding 3700	1300	35632012.00
<b>Sub Total : (B)</b>		<b>1637743.78</b>			<b>5777960046.40</b>
<b>TOTAL : (A) + (B)</b>		<b>6085652.59</b>			<b>22516295659.00</b>
<b>Value of 'X' =</b>	<b><math>\{ \sum(\text{UHVgm X CLWTg}) \} / \sum \text{CLWTg} = [ (6) / (3) ]</math></b>				<b>3699.90</b>
<b>Actual Weighted average Heat value of coal</b>					<b>3680.39</b>
<b>Allowable heat value of coal</b>					<b>3699.90</b>



## Annexure – 2D Computation of UHV of Coal based on Minimum of declared Heat Value

### BANDEL THERMAL POWER STATION

Period : April 2011 to December 2011					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per Notification	LOWER UHV VALUE OF GRADE ( Kcal/ Kg) [UHVgm ]	PRODUCT = UHV X QUANTITY [UHVgm X CLWTg ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	GRADE-A	1048.10		6200	6498220.00
	GRADE-B	67601.20		5600	378566720.00
	GRADE-C	18686.50		4940	92311310.00
	GRADE-D	5504.52		4200	23118984.00
MCL	GRADE-D	2627.36		4200	11034912.00
	GRADE-F	497381.09		2400	1193714616.00
BECML	GRADE-B	3576.50		5600	20028400.00
	GRADE-C	30493.10		4940	150635914.00
	GRADE-D	34066.60		4200	143079720.00
	GRADE-E	27358.90		3360	91925904.00
	GRADE-F	3678.00		2400	8827200.00
	GRADE-G	17986.00		1850	33274100.00
IMPORT	GRADE-B	124196.13		5600	695498328.00
OTHER (DIVERTED)	GRADE-B	59370.67		5600	332475752.00
	GRADE-D	95578.00		4200	401427600.00
	GRADE-E	14714.62		3360	49441123.20
	GRADE-F	215265.31		2400	516636744.00
	GRADE-G	6990.21		1850	12931888.50
<b>Sub Total : (A)</b>		<b>1226122.81</b>			<b>4161427435.70</b>



**Order on FCA of WBPDCCL for the year 2011-2012**

Period : April 2012 to March 2012					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per CIL Notification	LOWER UHV VALUE OF GRADE AS Per Regulation 5.8.15 of Tariff Regulations (Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	G3	12901.50	Exceeding 6400 & not exceeding 6700	6200	79989300.00
	G4	12357.40	Exceeding 6100 & not exceeding 6400	5600	69201440.00
	G5	23183.60	Exceeding 5800 & not exceeding 6100	4940	114526984.00
	G6	13239.00	Exceeding 5500 & not exceeding 5800	4940	65400660.00
	G7	3706.40	Exceeding 5200 & not exceeding 5500	4200	15566880.00
MCL	G9	3117.31	Exceeding 4600 & not exceeding 4900	3360	10474161.60
	G13	203348.04	Exceeding 3400 & not exceeding 3700	1300	264352452.00
BECML	G4	3993.88	Exceeding 6100 & not exceeding 6400	5600	22365728.00
	G6	32804.60	Exceeding 5500 & not exceeding 5800	4940	162054724.00
BCCL	G7	506.64	Exceeding 5200 & not exceeding 5500	4200	2127888.00
	G9	6861.52	Exceeding 4600 & not exceeding 4900	3360	23054707.20
IMPORT	G6	7298.09	Exceeding 5500 & not exceeding 5800	4940	36052564.60





**Order on FCA of WBPDCCL for the year 2011-2012**

OTHER (DIVERTED)	G3	7169.59	Exceeding 6400 & not exceeding 6700	6200	44451458.00
	G5	14110.47	Exceeding 5800 & not exceeding 6100	4940	69705721.80
	G6	66.96	Exceeding 5500 & not exceeding 5800	4940	330782.40
	G7	59373.61	Exceeding 5200 & not exceeding 5500	4200	249369162.00
	G11	3502.14	Exceeding 4000 & not exceeding 4300	2400	8405136.00
	G13	53111.07	Exceeding 3400 & not exceeding 3700	1300	69044391.00
<b>Sub Total : (B)</b>		<b>460651.82</b>			<b>1306474140.60</b>
<b>TOTAL : (A) + (B)</b>		<b>1686774.63</b>			<b>5467901576.30</b>
<b>Value of 'X' = <math>\frac{\{\sum(\text{UHVgm X CLWTg})\}}{\sum \text{CLWTg}}</math> = [ (6) / (3) ]</b>					<b>3241.63</b>
<b>Actual Weighted average Heat value of coal</b>					<b>3200.91</b>
<b>Allowable heat value of coal</b>					<b>3241.63</b>



## Annexure – 2E

### Computation of UHV of Coal based on Minimum of declared Heat Value

#### SANTALDIH THERMAL POWER STATION

Period : April 2011 to December 2011					
SOURCE OF COAL	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per Notification	LOWER UHV VALUE OF GRADE (Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	GRADE-B	207748.39		5600	1163390984.00
	GRADE-C	74658.77		4940	368814323.80
	GRADE-D	1835.15		4200	7707630.00
BCCL	GRADE-D	33310.69		4200	139904898.00
	GRADE-E	255055.83		3360	856987588.80
	GRADE-F	461487.70		2400	1107570480.00
IMPORT	GRADE-B	77271.56		5600	432720736.00
OTHER (DIVERTED)	GRADE-F	7120.23		2400	17088552.00
<b>Sub Total : (A)</b>		<b>1118488.32</b>			<b>4094185192.60</b>
Period : January 2012 to March 2012					
SOURCE OF COAL	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per CIL Notification	LOWER UHV VALUE OF GRADE AS Per Regulation 5.8.15 of Tariff Regulations (Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	G4	116843.06	Exceeding 6100 & not exceeding 6400	5600	654321136.00
MCL	G13	47552.01	Exceeding 3400 & not exceeding 3700	1300	61817613.00
BCCL	G8	149921.77	Exceeding 4900 & not exceeding 5200	4200	629671434.00
	G9	237696.19	Exceeding 4600 & not exceeding 4900	3360	798659198.40
	G10	120000.00	Exceeding 4300 & not exceeding 4600	3360	403200000.00
IMPORT	G6	178.68	Exceeding 5500 & not exceeding 5800	4940	882679.20
OTHER (DIVERTED)	G13	3739.96	Exceeding 3400 & not exceeding 3700	1300	4861948.00
<b>Sub Total : (B)</b>		<b>675931.67</b>			<b>2553414008.60</b>
<b>TOTAL : (A) + (B)</b>		<b>1794419.99</b>			<b>6647599201.20</b>
<b>Value of 'X' = <math>\frac{\sum(\text{UHVgm} \times \text{CLWTg})}{\sum \text{CLWTg}}</math> = [ (6) / (3) ]</b>					<b>3704.59</b>
<b>Actual Weighted average Heat value of coal</b>					<b>3530.82</b>
<b>Allowable heat value of coal</b>					<b>3704.59</b>



## Annexure – 2F Computation of UHV of Coal based on Minimum of declared Heat Value

### SAGARDIGHI THERMAL POWER STATION

Period : April 2011 to December 2011					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per Notification	LOWER UHV VALUE OF GRADE ( Kcal/ Kg) [UHVgm ]	PRODUCT = UHV X QUANTITY [UHVgm X CLWTg ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	GRADE-A	5143.00		6200	31886600.00
	GRADE-B	104197.00		5600	583503200.00
	GRADE-C	71528.00		4940	353348320.00
	GRADE-D	134898.00		4200	566571600.00
	GRADE-E	33631.00		3360	113000160.00
	GRADE-F	17126.00		2400	41102400.00
	GRADE-G	1762.00		1850	3259700.00
MCL	GRADE-F	720977.00		2400	1730344800.00
BECML	GRADE-B	3590.00		5600	20104000.00
	GRADE-C	434079.00		4940	2144350260.00
	GRADE-D	5539.00		4200	23263800.00
	GRADE-E	10224.00		3360	34352640.00
	GRADE-F	2152.00		2400	5164800.00
BCCL	GRADE-D	39456.00		4200	165715200.00
	GRADE-E	22684.00		3360	76218240.00
	GRADE-F	144600.00		2400	347040000.00
IMPORT	GRADE-B	165092.00		5600	924515200.00
OTHER (DIVERTED)	GRADE-G	216106.00		1850	399796100.00
Sub Total : (A)		2132784.00			7563537020.00



**Order on FCA of WBPDCCL for the year 2011-2012**

Period : January 2012 to March 2012					
Source of Coal	GRADE OF COAL	COAL CONSUMED (MT) [CLWT <sub>g</sub> ]	GCV Band as per CIL Notification	LOWER UHV VALUE OF GRADE AS Per Regulation 5.8.15 of Tariff Regulations (Kcal/ Kg) [UHVgm]	PRODUCT = UHV X QUANTITY [UHVgm X CLWT <sub>g</sub> ]
(1)	(2)	(3)	(4)	(5)	(6) = (3) X (5)
ECL	G3	2419.00	Exceeding 6400 & not exceeding 6700	6200	14997800.00
	G4	108808.30	Exceeding 6100 & not exceeding 6400	5600	609326480.00
	G5	89876.70	Exceeding 5800 & not exceeding 6100	4940	443990898.00
	G6	27313.40	Exceeding 5500 & not exceeding 5800	4940	134928196.00
	G7	16246.20	Exceeding 5200 & not exceeding 5500	4200	68234040.00
MCL	G13	337225.00	Exceeding 3400 & not exceeding 3700	1300	438392500.00
BECML	G6	214411.20	Exceeding 5500 & not exceeding 5800	4940	1059191328.00
BCCL	G9	6482.74	Exceeding 4600 & not exceeding 4900	3360	21782006.40
	G10	28962.77	Exceeding 4300 & not exceeding 4600	3360	97314907.20
IMPORT	G6	3197.54	Exceeding 5500 & not exceeding 5800	4940	15795847.60
OTHER (DIVERTED)	G13	10427.03	Exceeding 3400 & not exceeding 3700	1300	13555139.00
<b>Sub Total : (B)</b>		<b>845369.88</b>			<b>2917509142.20</b>
<b>TOTAL : (A) + (B)</b>		<b>2978153.88</b>			<b>10481046162.20</b>
Value of 'X' = $\frac{\{\sum(\text{UHVgm X CLWTg})\}}{\sum \text{CLWTg}} = [ (6) / (3) ]$					3519.31
Actual Weighted average Heat value of coal					3641.95
Allowable heat value of coal					3641.95



## Annexure – 2G

### Computation of Weighted Average Calorific Value of Coal

#### KOLAGHAT THERMAL POWER STATION

Month (2011 - 2012)	Consumption (MT)	Heat Value (Kcal/Kg)	Product
(1)	(2)	(3)	4 = (2) x (3)
April	572911.000	3405.000	1950761955.000
May	542120.000	3590.000	1946210800.000
June	496321.000	3320.000	1647785720.000
July	542898.000	3495.000	1897428510.000
August	615855.000	2966.000	1826625930.000
September	427969.000	3019.000	1292038411.000
October	574201.000	3380.000	1940799380.000
November	568058.000	2931.000	1664977998.000
December	509601.000	3210.000	1635819210.000
January	529642.000	3345.000	1771652490.000
February	502219.000	2975.000	1494101525.000
March	569891.000	3010.600	1715713844.600
Total	6451686.000		20783915773.600
Weighted average	3221.47		

#### BAKRESWAR THERMAL POWER STATION

Month (2011 - 2012)	Consumption (MT)	Heat Value (Kcal/Kg)	Product
(1)	(2)	(3)	4 = (2) x (3)
April	450422.000	4021.091	1811187850.402
May	466646.000	3901.080	1820423377.680
June	384717.000	3734.414	1436692550.838
July	385141.000	3523.646	1357100544.086
August	433225.000	3528.982	1528843226.950
September	390730.000	3644.207	1423901001.110
October	439925.000	3271.007	1438997754.475
November	403785.000	3257.260	1315232729.100
December	453047.000	3450.372	1563180683.484
January	397879.000	3973.492	1580969023.468
February	442250.000	3757.234	1661636736.500
March	425767.000	4073.637	1734420204.579
Total	5073534.000		18672585682.672
Weighted average	3680.39		



**Order on FCA of WBPDC for the year 2011-2012**

**BANDEL THERMAL POWER STATION**

Month (2011 - 2012)	Consumption (MT)	Heat Value (Kcal/Kg)	Product
(1)	(2)	(3)	4 = (2) x (3)
April	164456.000	3304.340	543418539.040
May	150151.000	3365.119	505275982.969
June	132827.000	3481.498	462436934.846
July	137720.000	2948.593	406080227.960
August	121518.000	3163.045	384366902.310
September	99458.000	2548.065	253425448.770
October	139910.000	3100.412	433778642.920
November	118776.000	2858.159	339480693.384
December	120590.000	2992.164	360825056.760
January	173581.000	3339.801	579725997.381
February	158681.000	3545.700	562635221.700
March	170533.000	3356.087	572323584.371
Total	1688201.000		5403773232.411
Weighted average	3200.91		

**SANTALDIH THERMAL POWER STATION**

Month (2011 - 2012)	Consumption (MT)	Heat Value (Kcal/Kg)	Product
(1)	(2)	(3)	4 = (2) x (3)
April	100193.000	3782.502	378980222.886
May	103984.000	3609.399	375319745.616
June	104983.000	3724.923	391053591.309
July	123685.000	3557.950	440065045.750
August	109317.000	3502.852	382921272.084
September	114310.000	3647.873	416988362.630
October	109600.000	3596.492	394175523.200
November	190281.000	3436.164	653836722.084
December	194634.000	2885.786	561672072.324
January	224626.000	3316.141	744891488.266
February	196314.000	3886.615	762996937.110
March	231005.000	3735.535	862927262.675
Total	1802932.000		6365828245.934
Weighted average	3530.82		



**Order on FCA of WBPDCCL for the year 2011-2012**

**SAGARDIGHI THERMAL POWER STATION**

Month (2011 - 2012)	Consumption (MT)	Heat Value (Kcal/Kg)	Product
(1)	(2)	(3)	4 = (2) x (3)
April	269300.000	3865.765	1041050514.500
May	222584.000	3828.093	852072252.312
June	243418.000	3552.374	864711774.332
July	281374.000	3629.304	1021191783.696
August	160351.000	3645.989	584637982.139
September	237197.000	3675.948	871923837.756
October	243663.000	3595.479	876085199.577
November	226653.000	3426.918	776721245.454
December	267206.000	3500.414	935331623.284
January	260579.000	3518.455	916835485.445
February	264123.000	3590.849	948425810.427
March	248857.000	3877.054	964832027.278
Total	2925305.000		10653819536.200
Weighted average	3641.95		



## CHAPTER – 3 ORDER

- 3.1 As per the findings narrated in the preceding chapter, WBPDCCL is entitled to an additional recovery of Rs. 21664.65 lakh in respect of Kolaghat, Bakreswar, Bandel, Santaldih and Sagardighi thermal power stations towards Fuel Cost Adjustments (FCA) for the year 2011 – 2012 from its energy recipient i.e., WBSEDCL as per the generating station wise break-up given below:

Generating Station	Sales (MU)	Rate of Energy charges allowed in the tariff order (Paise/kWh)	Amount of fuel cost recovered during 2011-2012 (Rs. in lakh)	Amount of fuel cost admitted in FPPCA for 2011-2012 (Rs. in lakh)	Balance amount recoverable for 2011-2012 (Rs. in lakh)
(1)	(2)	(3)	(4) = [(2)x(3)/10]	(5)	(6) = [(5)-(4)]
Kolaghat	6723.385	206.53	138858.07	149213.08	10355.01
Bakreswar	6957.890	204.61	142365.39	142313.49	-51.90
Bandel	1629.756	228.65	37264.37	40962.15	3697.78
Santaldih	2319.194	196.48	45567.52	55252.74	9685.22
Sagardighi	3575.901	190.42	68092.31	66070.85	-2021.46
<b>Total</b>	<b>21206.126</b>		<b>432147.66</b>	<b>453812.31</b>	<b>21664.65</b>

- 3.2 The recoverable amount of Rs. 21664.65 lakh or part thereof in respect of any of the generating stations of WBPDCCL shall be adjusted with the Aggregate Revenue Requirement of that generating station of WBPDCCL for 2013 – 2014 or that of any other ensuing year or through a separate order, as may be decided by the Commission. The decision of the Commission in this regard will be given in the APR order for 2011 – 2012 or in the tariff order of WBPDCCL for the year 2013 – 2014 or through a separate order.
- 3.3 WBPDCCL is directed to take note of this order of the Commission.
- 3.4 A copy of this order may also be served upon WBSEDCL.

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

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

**DATE: 04.07.2013**