



ORDER
OF THE
WEST BENGAL ELECTRICITY REGULATORY COMMISSION

IN CASES NO.
APR – 91/ 21 – 22
& FPPCA – 97/ 19 – 20

IN REGARD TO THE APPLICATIONS SUBMITTED BY
WEST BENGAL POWER DEVELOPMENT CORPORATION
LIMITED FOR APPROVAL OF FUEL AND POWER
PURCHASE COST ADJUSTMENT (FPPCA) AND ANNUAL
PERFORMANCE REVIEW (APR) FOR FY 2018-19

PRESENT:
DR MALLELA VENKATESWARA RAO, CHAIRPERSON

DATE: 12.03.2025



CHAPTER – 1 PREAMBLE

- 1.1. The West Bengal Electricity Regulatory Commission (hereinafter referred to as “the Commission”), a statutory body under the first proviso to Section 82(1) of the Electricity Act, 2003 (hereinafter referred to as “the Act”), has been authorized in terms of Section 86 and Section 62(1) of the Act to determine the tariff for a) supply of electricity by a generating company to a distribution licensee, b) transmission of electricity, c) wheeling of electricity and d) retail sale of electricity, as the case may be, within the State of West Bengal.
- 1.2. The West Bengal Power Development Corporation (WBPDCCL) constituted in 1985 under the Companies Act, 1956, is a generating company in terms of Section 2(28) of the Electricity Act, 2003 wholly owned by the State Government and is engaged in the business of generation of electricity within the State of West Bengal and the generation tariff shall be determined by the Commission.
- 1.3. The Commission vide its Order dated 14.07.2021 in Case No. TP-85/19-20 had determined the generation tariff of WBPDCCL for FY 2018-19. The same was reviewed by the Commission vide its Order dated 06.05.2022 in Case No. TP (R)- 37/21-22.
- 1.4. In accordance with Regulation 2.6 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended from time to time (hereinafter referred to as “Tariff Regulations”), the generating companies or the licensees, as the case may be, are required to undergo an Annual Performance Review (APR) process. WBPDCCL submitted the applications for Fuel and Power Purchase Cost Adjustment (FPPCA) and APR for FY 2018-19 on 19.11.2019 and 24.11.2021 respectively. WBPDCCL has also submitted a supplementary application for FPPCA and APR for FY 2018-19 on 08.03.2022. The FPPCA and APR applications along with supplementary application have been admitted by the Commission on 23.03.2022 in Case No. APR-91/21-22 & FPPCA-97/19-20. The gist of the aforesaid applications was published by WBPDCCL on 06.04.2022. Subsequently, the Commission vide Order dated 01.08.2022 in Case No. APR – 78/ 19 – 20 directed WBPDCCL to submit a Comprehensive Supplementary Petition considering the impact of Return on Equity redetermined as on 31.03.2014. Accordingly, WBPDCCL has submitted a Supplementary Petition vide letter dated 28.11.2022. The Supplementary Petition has been admitted by the Commission on 12.12.2022.
- 1.5. On admission of the Supplementary Petition, WBPDCCL was directed to publish a fresh gist of the APR and FPPCA Petitions of FY 2018-19 along with the Supplementary Petitions. Accordingly, the gist was published on 30.12.2022 in The Times of India (English), Ei Samay (Bengali), Sangbad



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Pratidin (Bengali) and Sanmarg (Hindi). The publication requested for submission of suggestions and objections from the members, if any, on the application to the Commission within 21 days from the date of publication of gist. The approved gist along with the APR and FPPCA Petitions for FY 2018-19 was also published on the website of WBPDCCL. Opportunities were also offered to all to inspect the application and take copies thereof.

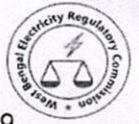
- 1.6. Against such gist publications of APR and FPPCA of WBPDCCL for FY 2018-19, no objection and suggestions have been received from any person within last date of submission.
- 1.7. During the course of analysis, the Commission has found certain deficiencies and accordingly sought clarifications/additional information from WBPDCCL. WBPDCCL has submitted some of the clarifications/additional information sought by the Commission vide its replies dated 09.02.2024, 14.03.2024, 16.05.2024, 06.06.2024, 01.08.2024, 17.02.2025 and 28.02.2025.
- 1.8. The submissions of WBPDCCL and Commission's analysis on APR and FPPCA for FY 2018-19 are detailed in the following chapters.



CHAPTER – 2

COMPUTATIONS OF THE ALLOWABLE FUEL COST

- 2.1. WBPDCCL has claimed Fuel and Power Purchase Cost Adjustment (FPPCA) separately for each of the following generating stations for FY 2018-19.
- A. Kolaghat Thermal Power Station (KTPS) (6 x 210 MW = 1260 MW)
 - B. Bakreswar Thermal Power Station (BkTPS) (5 x 210 MW = 1050 MW)
 - C. Bandel Thermal Power Station Stage I (BTPS Stg I) (2 x 60 MW = 120 MW)
 - D. Bandel Thermal Power Station Stage II (BTPS Stg II) (1 x 215 MW = 215 MW)
 - E. Santaldih Thermal Power Station (STPS) (2 x 250 MW = 500 MW)
 - F. Sagardighi Thermal Power Station Stage I (SgTPS Stg I) (2 x 300 MW = 600 MW)
 - G. Sagardighi Thermal Power Station Stage II (SgTPS Stg II) (2 x 500 MW = 1000 MW)
- 2.2. In this part of the order, the Commission takes up the determination of fuel cost allowable to WBPDCCL on the quantum of power sold by it to WBSEDCL during FY 2018-19 along with any gains arising from the performance of different generating stations of WBPDCCL over the operating norms set by the Commission.
- 2.3. The FPPCA during the referred adjustment period, i.e., FY 2018-19 are to be ascertained by following the formula as enunciated by the Commission in Part-B of the Schedule - 7A of the Tariff Regulations.
- 2.4. Further, Paragraph A of Schedule 9B of the Tariff Regulations, contains provisions for sharing the gains for coal fired thermal power stations, if any, on account of its better performances over the operating norms set by the Commission. The operational parameters which are to be considered for such sharing of gains accrued to the generating stations are:
- i. Gain sharing for better Gross Station Heat Rate (SHR);
 - ii. Gain sharing for better Oil Consumption rate;
 - iii. Gain sharing for better Auxiliary Consumption rate;
- 2.5. Further, in terms of Paragraph D of Schedule 9 B of the Tariff Regulations, the sharable gains shall be used first to compensate the deficit in fixed charge recovery of the concerned generating station of the generating company in case the availability of the generating station falls below the availability norm and only thereafter the balance, if any, shall be passed on to the consumers / beneficiaries.
- 2.6. **Comparison of Normative and Actual Operational Norms**
- 2.6.1. Before ascertaining the amount of admissible fuel cost as well as the amount of gains to be shared with the beneficiary (WBSEDCL) under the provisions of Tariff Regulations explained in aforesaid



paragraphs, the actual performance of WBPDC in comparison to the operational norms set by the Commission in the Tariff Regulations for the concerned year needs to be reviewed. Such comparisons are made hereunder:

Table 1: Normative v/s Actual Operating Parameters for FY 2018 – 19

Station	Station Heat Rate (kcal/kWh)		Specific Oil Consumption (ml/kWh)		Auxiliary Consumption (%)	
	Norm	Actual	Norm	Actual	Norm	Actual
Kolaghat	2700	2927	2.00	1.76	9.60%	11.22%
Bakreswar	2470	2535	1.30	0.43	9.00%	9.04%
Bandel I	3050	3223	2.50	10.11	10.40%	13.72%
Bandel II	2430	2733	1.75	4.45	9.00%	10.24%
Santaldih	2425	2542	1.00	1.71	9.00%	8.64%
Sagardighi I	2345	2481	1.00	0.96	9.00%	12.96%
Sagardighi II	2424	2705	1.00	1.78	9.00%	6.52%

The computations of actual rate of Auxiliary Consumption, Specific Consumption of Oil and SHR achieved are shown in Annexure-2A.

2.6.2. From Table 1 above, it is observed that the following generating stations have better performances over the operating norms set by the Commission and therefore qualify for deriving gains subject to the condition stipulated in terms of provisions of Schedule – 9B of the Tariff Regulations

- For Better Oil Consumption rate: Kolaghat TPS, Bakreswar TPS and Sagardighi Stage I TPS
- For better Auxiliary Consumption rate: Santaldih TPS and Sagardighi Stage II TPS

2.6.3. WBPDC in their APR Application has submitted the actual availability certified by SLDC vis-à-vis the normative availability of the generating stations as tabulated below:

Table 2: Normative v/s Actual Availability for FY 2018 – 19

Generating Station	Normative Availability (%)	Actual Availability (%)
Kolaghat	75.00%	42.30%
Bakreswar	85.00%	82.53%
Bandel I	70.00%	37.08%
Bandel II	85.00%	54.01%
Santaldih	85.00%	84.48%
Sagardighi I	85.00%	53.35%
Sagardighi II	85.00%	41.18%

2.6.4. Since the actual availabilities of the generating stations are lower than the normative availability, gains on improved performance of Kolaghat, Bakreswar, Santaldih, Sagardighi Stage I and Sagardighi Stage II shall be used to compensate the deficit in fixed charge recovery of the concerned generating stations as stipulated in terms of the provisions of Schedule-9B of the Tariff Regulations. The amount of gain and its share shall be determined in the subsequent paragraphs.

**2.7. Determination of allowable fuel cost**

2.7.1. The consumption of fuel and costs thereon submitted by WBPDC in its FPPCA petition for its different generating stations for FY 2018 – 19 is as shown in the Table 3 below:

Table 3: Fuel and cost details submitted by the Petitioner for FY 2018 – 19

Particulars	Unit	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Normative SHR	kCal / kWh	2700	2470	3050	2430	2425	2345	2424
Normative Oil Consumption	mL / kWh	2.00	1.30	2.50	1.75	1.00	1.00	1.00
Weighted Average Calorific Value of Oil	kCal / L	9272.15	9963.10	9204.60	9204.60	9443.04	9343.33	9343.33
Weighted Average Useful Heat Value of Coal	kCal / kg	3110.36	4285.81	3297.12	3297.12	3501.99	4450.22	4170.41
Weighted Average Price of Oil	Rs. / kL	52072.17	42303.62	48905.45	49931.65	54669.05	50799.28	50102.89
Weighted Average Price of Coal	Rs. / MT	3823.67	4259.27	4716.75	4721.62	3779.68	6372.33	5649.63

2.7.2. The first two of the above factors, i.e., the station heat rate and the rate of consumption of oil are considered based on the norms specified 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 admissible price and heat value of coal are computed in the subsequent paragraphs subject to adjustments in terms of Regulation 5.8.1(i) of the Tariff Regulations.

2.8. Gross Generation and Auxiliary Consumption

Gross generation of the station has been computed by considering the ex-bus injection schedule certified by SLDC and the normative auxiliary consumption as below:

Table 4: Admissible Gross Generation for FY 2018 – 19

Generating Station	Scheduled Injection (MU)	Normative Auxiliary Consumption (%)	Normative Auxiliary Consumption (MU)	Admissible Gross Generation (MU)
Kolaghat	3910.861	9.60%	415.313	4326.174
Bakreswar	6519.421	9.00%	644.778	7164.199
Bandel I	322.570	10.40%	37.441	360.011
Bandel II	854.840	9.00%	84.545	939.385
Santaldih	3238.670	9.00%	320.308	3558.978
Sagardighi I	2300.724	9.00%	227.544	2528.268
Sagardighi II	3226.064	9.00%	319.061	3545.125

**2.9. Weighted average Heat Value and Cost of oil**

WBPDCCL has submitted their detailed computations of the weighted average calorific value of oil with reference to the month-wise supplies received by them along with price of oil certified by the auditor in their FPPCA petition. The same has been considered by the Commission.

Table 5: Heat value and landed price of oil for FY 2018 – 19

Generating Stations	Quantum of Oil Consumed (kL)	Price of Oil (Rs. / kL)	Heat Value of Oil (kCal / L)
Kolaghat	7767.07	52072.17	9272.15
Bakreswar	3081.68	42303.62	9963.10
Bandel I	3738.05	48905.45	9204.60
Bandel II	4206.95	49931.65	9204.60
Santalidih	6070.43	54669.05	9443.04
Sagardighi Stage I	2523.68	50799.28	9343.33
Sagardighi Stage II	6086.91	50102.89	9343.33

2.10. Weighted Average Useful Heat Value (UHV) of Coal

- 2.10.1. WBPDCCL has purchased linkage coal from CIL subsidiaries, auctioned coal from MSTC and WBMDTCL and Imported & Washed coal during FY 2018 – 19. WBPDCCL has also received some diverted coal and captive coal from its captive mine at Barjora. WBPDCCL has submitted the Gross Calorific Value (GCV) of the coal purchased and received during FY 2018 – 19 in Annexure IV B of its FPPCA petition.
- 2.10.2. For captive coal, WBPDCCL in its FPPCA petition dated 19.11.2019 has submitted that the GCV of the captive coal received at Bakreswar and Sagardighi Stage II is 5273.14 kCal/ kg and 4966.78 kCal/ kg respectively. Subsequently, WBPDCCL in its petition dated 14.06.2022 for approval of input price of coal from Barjora Coal Mine has stated that the actual weighted average GCV of coal for 2018 – 19 is 5313.48 kcal/ kg which corresponds to G7 grade (5200 kCal/kg to 5500 kCal/kg) of coal. The grade of captive coal has also been corroborated in Form D(3) submitted by WBPDCCL vide letter dated 01.08.2024. Accordingly, the Commission considers the GCV of captive coal received at Bakreswar and Sagardighi Stage II as 5313.48 kCal/ kg, as mentioned in their petition for input price determination.
- 2.10.3. The Commission now determines the Useful Heat Value (UHV) of coal following the provisions specified in regulation 5.8.15 of the Tariff Regulations. The conversion from GCV to UHV, as per regulation 5.8.15, is not required for imported or washed coal, which contains less ash and is ~50 mm in size. The computations heat value of coal for each of the generating stations has been given in Annexure 2C1 to Annexure 2C6 of this chapter.



- 2.10.4. Accordingly, the admitted UHV value of coal for each of the generating stations has been considered limited to the 'X' value determined in terms of regulation 5.8.1 (i) of the Tariff Regulations. The same is summarized as below:

Table 6: Weighted Average Heat Value of Coal for FY 2018 – 19

Figures in kCal / kg

Generating Station	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal	Admitted UHV limited to 'X' as per Regulation 5.8.1 (i)
Kolaghat	4299.75	3320.32	3159.79	3320.32
Bakreswar	5165.44 #	4371.39	4139.67	4371.39
Bandel I	4323.95	3333.71	3190.87	3333.71
Bandel II	4323.95	3333.71	3190.87	3333.71
Santalidih	4595.74	3593.90	3499.75	3593.90
Sagardighi I	5276.12	4515.42	4363.11	4515.42
Sagardighi II	5082.91 #	4244.61	4122.50	4244.61

GCV of Captive Coal from Barjora Coal Mine has been considered as 5313.48 kCal/ kg as discussed in paragraph 2.10.2 above

2.11. Weighted Average Landed Price of Coal**2.11.1. Price of Coal:**

- 2.11.1.1 The Commission observes that WBPDCCL has purchased coal from CIL subsidiaries, e-auction coal from MSTC & WBMDTCL, diverted coal and also through imports. WBPDCCL also received coal from captive coal mine of Barjora during 2018 – 19. WBPDCCL has submitted the actual cost of coal paid through the auditor certificates and also provided the break-up of coal prices in Form D (3).

- 2.11.1.2 WBPDCCL has considered the price of coal received from captive mine of Barjora at the CIL price of Rs. 3145.50 per MT corresponding to G7 grade. The Commission vide order dated 19.09.2023 in Case No. APR – 91/ 21 – 22 / Part – A has determined the input price of coal for Barjora Coal Mine for 2018 – 19 as Rs. 2515.18 per MT. In view of the same, the Commission considers the input price of coal of Barjora Coal Mine as admitted in the order dated 19.09.2023. For all other sources, the actual price of coal as per the audited certificate are considered.

2.11.2. Transportation of Coal:

- 2.11.1.1 From Form D(2), the Commission observes that the coal is transported through rail mode only and thus only railway freight charges are applicable as per the freight rate of Indian Railways. Further, WBPDCCL in Table B of their FPPCA Petition has shown a Demurrage Charge amounting to Rs. 822 lakhs which have been settled with the Railways on payment basis. WBPDCCL stated that they could not recover the Demurrage Charge from MFCA since the required information was not



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available during MFCA claims. However, WBPDCCL has neither shown the demurrage charges as mandated under Form D(2) nor shown any Demurrage Charge in Form E(B) of their APR Petition for the respective generating stations.

- 2.11.1.2 The Commission on 02.05.2024 directed WBSEDCL to submit a statement of coal transportation charges along with justifications/ mismatch from the Annexure IV submitted vide their FPPCA petition. WBPDCCL vide letter dated 16.05.2024 has submitted a reconciliation statement along with breakup of coal transportation charges specifying the demurrage amount as detailed below:

Table 7: Coal Transportation Charges of Coal as claimed by WBPDCCL for FY 2018 – 19

Figures in Rs Lakhs

Particulars	Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi I	Sagardighi II
Freight Charges	43363.01	15271.70	8033.11	6221.78	7259.55	9060.65
Overloading Charges	251.83	98.58	120.27	74.71	131.47	164.09
Demurrage Charges	286.17	105.64	217.85	75.61	60.78	75.86
Loco Hire Charges/ Siding Shunting Charges	476.28	271.38	0.00	197.86	13.08	16.33
Total Transportation Cost of Coal	44377.29	15747.30	8371.23	6569.96	7464.88	9316.93

- 2.11.1.3 The Commission observes that, in terms of regulation 5.8.1 (vi) of the Tariff Regulations, no Demurrage Charges is allowable for new generating stations (date of synchronization on or after 31.12.2007) unless free time provided by railways is reduced by more than 20% from the existing value. Accordingly, demurrage charge is not applicable for Bakreswar Stage II, Santaldih and Sagardighi Stage I and Stage II. WBPDCCL vide affidavit dated 28.02.2025 has submitted the reasons for incurring demurrage charges in respect of old plants viz. Kolaghat TPS, Bandel TPS and Bakreswar Stage I TPS. WBPDCCL also submitted to have undertaken initiatives in containing and reducing the demurrage charges to a considerable extent in terms of regulation 5.8.1 (vi) of the Tariff Regulations. The Commission, in view of the above, considers the demurrage charges in respect of old plants during 2018 – 19.

- 2.11.1.4 Accordingly, the transportation cost of coal considered by the Commission is as under:

Table 8: Coal Transportation Charges of Coal as admitted for FY 2018 – 19

Figures in Rs Lakhs

Particulars	Kolaghat	Bakreswar	Bandel	Santaldih	Sagardighi I	Sagardighi II
Freight Charges	43363.01	15271.70	8033.11	6221.78	7259.55	9060.65
Overloading Charges	251.83	98.58	120.27	74.71	131.47	164.09
Demurrage Charges	286.17	63.38 [#]	217.85	0.00	0.00	0.00
Loco Hire Charges/ Siding Shunting Charges	476.28	271.38	0.00	197.86	13.08	16.33
Total Transportation Cost of Coal	44377.29	15705.04	8371.23	6494.35	7404.10	9241.07
# Allowed in proportion to the Installed Capacity of BKTPS						



2.11.3. The Commission now computes the weighted average price of coal for all the generating stations considering the impact of captive coal received at Bakreswar and Sagardighi Stage II plants as given in Annexure 3 of this chapter.

2.11.4. The weighted average landed price of coal for each of the generating stations is summarized below:

Table 9: Weighted Average Landed Price of Coal for FY 2018 – 19

Figures in Rs. / MT

Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Weighted Average Landed Price of Coal	3833.43	4233.31	4700.39	4700.39	3789.71	6369.91	5554.55

2.12. Weighted Average Heat Value and Price of Coal consumed:

The Commission observed that, WBPDCCL has considered the price of coal consumed considering the coal purchased during the year and the opening coal stock available. However, from their submission it appears that the heat value of opening coal stock has not been factored while computing heat value of coal consumed during the year. The Commission finds it appropriate to compute the heat value and price of coal duly taking into the impact of coal purchased as well as opening stock of the year. Since, the price of opening stock of coal along with its heat value for 2018 – 19 has not been specified in the FPPCA petition, the Commission decides to consider the price and heat value of coal as admitted in the APR of 2017 – 18. Accordingly, the admissible landed price and heat value of coal consumed during FY 2018 – 19 is computed in Annexure 4 of this chapter and summarized as below:

Table 10: Weighted Average Price and Heat Value of Coal consumed for FY 2018 – 19

Particulars	Unit	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Weighted Average Price of Coal	Rs. / MT	3833.29	4230.08	4688.96	4688.96	3791.02	6365.94	5548.75
Weighted Average Heat Value of Coal	kCal / kg	3320.38	4365.58	3343.21	3343.21	3598.79	4514.72	4244.24

2.13. Excess oil claimed on account of forced shutdown

2.13.1. WBPDCCL submitted in its application that the excess consumption of oil (Light Diesel Oil) at Bandel was partly due to forced backdown on several occasions when State Load Despatch Centre (SLDC) issued instruction to de-synchronize the generating unit. The re-synchronization of the units could only be done on obtaining clearance from SLDC.

2.13.2. It is also submitted that, 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. 24.22 lakh in this regard through energy charges for the year 2018 - 19.

Table 11: Cost of Excess Oil Consumption claimed for FY 2018 – 19

Sl No	Plant	No. of Instances where Units were desynchronized as per direction of SLDC	Oil Consumption (in KI)	Cost of Excess Oil Consumption (in Rs Lakh)
1	Bandel TPS	4	49	24.22

2.13.3. The Commission has observed from the documents submitted by WBPDCCL that the generating units of Bandel was desynchronized as per the instruction of SLDC due to low system demand, as a part of standard operational practice. This has already been taken into consideration during the fixation of norms. Thus, the Commission does not consider the claim of expenses for excess consumption of oil for the generating station for FY 2018-19.

2.13.4. Apart from above, WBPDCCL through the instant FPPCA petition, has also sought review of the FPPCA Orders pertaining to FY 2010 – 11, FY 2011 – 12, FY 2012 – 13 and FY 2013 – 14 and claimed an amount Rs. 4134.90 Lakh on account of expenses towards excess oil consumption. The Commission observed that WBPDCCL's claim for expenses towards excess oil consumption during FY 2010 – 11, FY 2011 – 12, FY 2012 – 13 and FY 2013 – 14 have been disallowed by the Commission in the respective FPPCA Orders and cannot be reviewed through subsequent order. Therefore, the claims are not required to be dealt within the instant application for FY 2018-19.

2.14. Permitted Transit Loss & Handling Loss of Coal:

WBPDCCL has claimed the transit loss and handling loss on entire coal including imported coal as per the norms specified by the Commission in the Tariff Regulations. The norms of respective generating stations have been considered by the Commission for determination of fuel cost.

2.15. Admitted Fuel Cost and Energy Charge Rate

The total fuel cost admissible along with energy charge rate for FY 2018 – 19 for each of the generating stations have been summarized below. Detailed Computation of the same is shown in Annexure - 2B-1 to Annexure 2B-7.

Table 12: Admitted Fuel Cost for FY 2018 – 19

Generating Station	Scheduled Injection (MU)	Admitted Cost of Fuel (Rs Lakh)	Energy Charge Rate (p/kWh)
Kolaghat	3910.861	139509.53	356.72
Bakreswar	6519.421	175361.25	268.98
Bandel I	322.570	15847.50	491.29
Bandel II	854.840	32880.78	384.64
Santalidih	3238.670	93237.19	287.89



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Generating Station	Scheduled Injection (MU)	Admitted Cost of Fuel (Rs Lakh)	Energy Charge Rate (p/kWh)
Sagardighi I	2300.724	85221.09	370.41
Sagardighi II	3226.064	114592.16	355.21

2.16. C_D: Cost Disallowable

The factor C_D as referred to in the formula, 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 the unit rates of energy charges from the generating stations have been worked out based on normative parameters, no further disallowance is required on this account.

2.17. Gains on account of better performance over operating norms

2.17.1. As discussed in paragraph 2.6.3, gain for Kolaghat TPS, Bakreswar TPS and Sagardighi Stage I TPS due to improved specific oil consumption is computed in the Table 13 below:

Table 13: Gain due to improved specific oil consumption for Kolaghat, Bakreswar and Sagardighi Stage I for FY 2018-19

Particulars	Unit	Derivation	KTPS	BkTPS	SgTPS I
Total Gross Generation [SI No. D of Annexure 2B]	MU	[1]	4326.174	7164.199	2528.27
Oil consumption on normative basis [SI No. L of Annexure 2B]	kL	[2]	8652.35	9313.46	2528.27
Actual oil consumption [Table 5 above]	kL	[3]	7767.07	3081.68	2523.68
Savings in oil consumption	kL	[4] = [2] - [3]	885.28	6231.78	4.59
Average rate of oil [SI No. N of Annexure 2B]	Rs./kL	[5]	52072.17	42303.62	50799.28
Savings in amount	Rs. Lakh	[6] = [4] x [5]	461	2636	2
SHARING OF GAIN					
Specific Consumption of Oil as per admissible Norms	ml/kWh	[7]	2.00	1.30	1.00
Actual Oil Consumption [Annexure 2A]	ml/kWh	[8]	1.76	0.43	0.96
Category based on normative auxiliary			B	B	A
Sharing Ratio as per paragraph A1 of Schedule 9B			55% : 45%	70% : 30%	60% : 40%
Share % of WBSEDCL	%	[9]	45%	30%	40%
Share of WBSEDCL	Rs. Lakh	[10] = [6] x [9]	207	791	1

2.17.2. As discussed in paragraph 2.6.3, gain for Santaldih TPS and Sagardighi Stage II due to improved auxiliary energy consumption is computed in the Table 14 below:

Table 14: Gain due to improved auxiliary energy consumption for Santaldih and Sagardighi Stage II for FY 2018-19

Particulars	Unit	Derivation	STPS	SgTPS II
Normative Auxiliary Consumption [SI No. C of Annexure 2B]	MU	[1]	320.308	319.061



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Particulars	Unit	Derivation	STPS	SgTPS II
Actual Auxiliary Consumption [Annexure 2A]	MU	[2]	306.948	223.542
Savings in Auxiliary Consumption	MU	[3] = [2] – [3]	13.360	95.519
Cost of Gross Generation	Rs./kWh	[4]	2.62	3.23
Gain	Rs. Lakh	[5]	350	3085
SHARING OF GAIN				
Normative Auxiliary Consumption	%	[6]	9.00%	9.00%
Actual Auxiliary Consumption	%	[7]	8.64%	6.52%
Category based on normative auxiliary			B	B
Sharing Ratio as per paragraph A2 of Schedule 9B			60% : 40 %	85% : 15%
Share % of WBSEDCL	%	[8]	40%	15%
Share of WBSEDCL	Rs. Lakh	[9] = [5] x [8]	140	463

2.17.3. The share of WBSEDCL on account of improved specific oil consumption of Kolaghat, Bakreswar and Sagardighi Stage I and on account of improved auxiliary energy consumption of Santaldih and Sagardighi Stage II is to be compensated with the deficit in fixed charge recovery in terms of paragraph D of Schedule 9B to the Tariff Regulations.

2.17.4. The deficit in fixed charge recovery for Kolaghat, Bakreswar, Santaldih and Sagardighi Stage I and Sagardighi Stage II is Rs. 20056.19 Lakh, Rs. 1321.98 Lakh, Rs. 135.03 Lakh, Rs. 12527.09 Lakh and Rs. 47552.06 Lakh respectively as detailed in Chapter-3. Accordingly, the share of gains of WBSEDCL is compensated with the deficit in fixed charge recovery of the respective generating stations in terms of paragraph D of Schedule 9B of the Tariff Regulations. Only an amount of Rs. 4.97 Lakh in respect of Santaldih is shared with WBSEDCL.

2.18. WBPDCCL in its FPPCA petition dated 19.11.2019 has considered the fuel cost recovered through energy bill during 2018 – 19 as per the Tariff Order for the year 2016 – 17. Subsequently, WBPDCCL vide comprehensive supplementary petition dated 28.11.2022 has submitted the fuel cost recovered during 2018 – 19 in accordance with paragraph 6.5 of the Tariff Order dated 14.07.2021. Thus, the revenue from the energy charges realized by WBPDCCL during 2018 – 19 is given below:

Table 15: Revenue Realized during FY 2018-19

Figures in Rs. Lakhs

Generating Station	Energy Charges Recovered	MFCA Recovered	Total Fuel Cost Recovered
Kolaghat	107636.36	40628.30	148264.66
Bakreswar	136421.62	24412.49	160834.11
Bandel I	12408.06	2889.17	15297.23
Bandel II	24041.89	7675.23	31717.12
Santaldih	75597.70	10732.21	86329.91
Sagardighi I	54779.02	25967.20	80746.22
Sagardighi II	71964.40	25830.50	97794.90



Order on FPPCA and APR of WBPDC for FY 2018-19

2.19. Summing up the findings as explained in the earlier paragraphs, the amount of Fuel and Power Purchase Cost Adjustment (FPPCA) of each of the generating stations of WBPDC for the year 2018 – 19 is now determined based on the FPPCA formula specified in paragraph B of Schedule - 7A of the Tariff Regulations considering admissible fuel cost of WBPDC for FY 2018 – 19, net of sharing of gains due to improved performance vis-à-vis the fuel cost recovered during the year as shown in the table below:

Table 16: Fuel Cost Adjustment for 2018 – 19

Figures in Rs. Lakhs

Generating Stations	Admitted Fuel Cost	Power Purchase Cost for pumping energy of PSP	Less: Cost disallowed	Adjustment, if any	Fuel cost recovered through sale to the purchaser	Power purchase cost allowed in Tariff order for pumping energy	FPPCA
	FC	PPC	C _D	A	fc	ppc	{FC + (PPC - C _D) + A} – (fc + ppc)
Kolaghat	139509.53	Not applicable	0.00	0.00	148264.66	Not applicable	(-) 8755.13
Bakreswar	175361.25	Not applicable	0.00	0.00	160834.11	Not applicable	14527.14
Bandel I	15847.50	Not applicable	0.00	0.00	15297.23	Not applicable	550.27
Bandel II	32880.78	Not applicable	0.00	0.00	31717.12	Not applicable	1163.66
Santaldih	93237.19	Not applicable	0.00	0.00	86329.91	Not applicable	6907.28
Sagardighi I	85221.09	Not applicable	0.00	0.00	80746.22	Not applicable	4474.87
Sagardighi II	114592.16	Not applicable	0.00	0.00	97794.90	Not applicable	16797.26
Total FPPCA of WBPDC							35665.35

2.19.1. The decision of the Commission regarding recovery of the amount of Rs. 35665.35 Lakh by WBPDC from its energy recipients i.e., WBSEDCL will be given in subsequent chapter.

**ANNEXURE – 2A****COMPUTATION OF ACTUAL STATION HEAT RATE ACHIEVED IN FY 2018-19**

SI No.	Particulars	Unit	Generating Stations						
			Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
1	Gross Generation (Actual)	MU	4422.867	7182.224	369.810	945.572	3552.620	2624.880	3426.039
2	Consumption of Oil (Actual)	kL	7767.07	3081.68	3738.051	4206.949	6070.43	2523.68	6086.91
3	Consumption of Coal (Actual)	MT	3876851.50	4162942.15	346182.01	761278.97	2493665.53	1437352.69	2170239.30
4	GCV of Oil (Actual)	kCal/ L	9272.15	9963.10	9204.60	9204.60	9443.04	9343.33	9343.33
5	Heat Value of Coal (Actual)	kCal/ kg	3320.38	4365.58	3343.21	3343.21	3598.79	4514.72	4244.24
6	Heat from Oil (2*4/1000)	MkCal	72017.45	30703.08	34407.28	38723.30	57323.31	23579.58	56872.02
7	Heat from Coal (3*5/1000)	MkCal	12872620.18	18173656.99	1157359.16	2545115.47	8974178.58	6489244.93	9211016.46
8	Total Heat Used (6+7)	MkCal	12944637.63	18204360.07	1191766.44	2583838.77	9031501.89	6512824.51	9267888.48
9	Station Heat Rate Achieved (8/1)	kCal/ kWh	2927	2535	3223	2733	2542	2481	2705
10	Normative Station Heat Rate	kCal/ kWh	2700	2470	3050	2430	2425	2345	2424

COMPUTATION OF ACTUAL AUXILIARY CONSUMPTION ACHIEVED IN FY 2018-19

SI No.	Particulars	Actual Gross Generation (MU)	Actual Sent Out Energy (MU)	Auxiliary Consumption (MU)	Auxiliary Consumption (%)	Normative Auxiliary Consumption (%)
1	Kolaghat	4422.867	3926.531	496.336	11.22%	9.60%
2	Bakreswar	7182.224	6533.155	649.069	9.04%	9.00%
3	Bandel I	369.810	319.071	50.739	13.72%	10.40%
4	Bandel II	945.572	848.767	96.805	10.24%	9.00%
5	Santaldih	3552.620	3245.672	306.948	8.64%	9.00%
6	Sagardighi I	2624.880	2284.695	340.185	12.96%	9.00%
7	Sagardighi II	3426.039	3202.497	223.542	6.52%	9.00%

COMPUTATION OF SPECIFIC OIL CONSUMPTION ACHIEVED IN FY 2018-19

SI No.	Generating Station	Actual Gross Generation (MU)	Actual Oil Consumption (kL)	Specific Oil Consumption (mL/kWh)	Normative Oil Consumption (mL/kWh)
1	Kolaghat	4422.867	7767.07	1.76	2.00
2	Bakreswar	7182.224	3081.68	0.43	1.30
3	Bandel I	369.810	3738.05	10.11	2.50
4	Bandel II	945.572	4206.95	4.45	1.75
5	Santaldih	3552.620	6070.43	1.71	1.00
6	Sagardighi I	2624.880	2523.68	0.96	1.00
7	Sagardighi II	3426.039	6086.91	1.78	1.00



ANNEXURE – 2B-1
COMPUTATION OF FUEL COST OF KOLAGHAT TPS FOR FY 2018-19

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	3910.861	3910.861
Normative Auxiliary Consumption	B	%	9.60%	9.60%
Auxiliary Consumption	C	MU	415.313	415.313
Gross Admissible Generation	D	MU	4326.174	4326.174
Heat Rate	E	kcal/kWh	2700	2700
Permitted Oil Consumption	F	ml/kWh	2.00	2.00
Heat Value of Oil	G	kcal/L	9272.15	9272.15
Heat Value of Coal	H	kcal/kg	3110.36	3320.38
Overall Permitted Heat	$I=D \times E$	GCal	11680670	11680669.80
Permitted Heat from Oil	$J=D \times F \times G / 10^3$	GCal	80226	80225.90
Permitted Heat from Coal	$K=I-J$	GCal	11600444	11600443.90
Permitted Oil Consumption	$L=(J/G) \times 10^3$	kL	8652	8652.35
Permitted Coal Consumption excluding transit loss		Tonne	3729613	3493709.73
Transit Loss @ 0.80%		Tonne	30078	28175.08
Permitted Coal Consumption with Transit Loss	$M=K/H \times 992 \times 10^3$	Tonne	3759690	3521884.81
Cost of Oil per kL	N	Rs./kL	52072.17	52072.17
Cost of Coal per Tonne	O	Rs./Tonne	3823.67	3833.29
Cost of Oil	$P=L \times N / 10^5$	Rs. Lakh	4505	4505.47
Cost of Coal	$Q=M \times O / 10^5$	Rs. Lakh	143758	135004.06
Total Cost of Fuel	$R=P+Q$	Rs. Lakh	148263	139509.53
Energy charge rate	$S = R \times 10/A$	Paisa/kwh	379.11	356.72

**ANNEXURE – 2B-2****COMPUTATION OF FUEL COST OF BAKRESWAR TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	6519.421	6519.421
Normative Auxiliary Consumption	B	%	9.00%	9.00%
Auxiliary Consumption	C	MU	644.778	644.778
Gross Admissible Generation	D	MU	7164.199	7164.199
Normative Station Heat Rate	E	kcal/kWh	2470	2470
Permitted Oil Consumption	F	ml/kWh	1.30	1.30
Heat Value of Oil	G	kcal/L	9963.10	9963.10
Heat Value of Coal	H	kcal/kg	4285.81	4365.58
Overall Permitted Heat	$I = D * E$	GCal	17695571	17695571.53
Permitted Heat from Oil	$J = D * F * G / 10^3$	GCal	92791	92790.92
Permitted Heat from Coal	$K = I - J$	GCal	17602780	17602780.61
Permitted Oil Consumption	$L = (J / G) * 10^3$	kL	4107223	4032174.56
Permitted Coal Consumption excluding transit loss		Tonne	20639	20262.18
Transit Loss @ 0.50%		Tonne	4127862	4052436.74
Permitted Coal Consumption with Transit Loss	$M = K / H / .995 * 10^3$	Tonne	4127862	4050497.59
Cost of Oil per kL	N	Rs./kL	42303.62	42303.62
Cost of Coal per Tonne	O	Rs./Tonne	4259.27	4230.08
Cost of Oil	$P = L * N / 10^5$	Rs. Lakh	3940	3939.93
Cost of Coal	$Q = M * O / 10^5$	Rs. Lakh	175817	171421.32
Total Cost of Fuel	$R = P + Q$	Rs. Lakh	179757	175361.25
Energy charge rate	$S = R * 10 / A$	Paisa/kwh	275.72	268.98

**ANNEXURE – 2B-3****COMPUTATION OF FUEL COST OF BANDEL - 1 TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	322.570	322.570
Normative Auxiliary Consumption	B	%	10.40%	10.40%
Auxiliary Consumption	C	MU	37.441	37.441
Gross Admissible Generation	D	MU	360.011	360.011
Heat Rate	E	kcal/kWh	3050	3050
Permitted Oil Consumption	F	ml/kWh	2.50	2.50
Heat Value of Oil	G	kcal/L	9204.60	9204.60
Heat Value of Coal	H	kcal/kg	3297.12	3343.21
Overall Permitted Heat	$I=D \times E$	GCal	1098034	1098033.55
Permitted Heat from Oil	$J=D \times F \times G / 10^3$	GCal	8284	8284.42
Permitted Heat from Coal	$K=I-J$	GCal	1089750	1089749.13
Permitted Oil Consumption	$L=(J/G) \times 10^3$	kL	900.03	900.03
Permitted Coal Consumption excluding transit loss		Tonne	330515	325958.92
Transit Loss @ 0.80%		Tonne	2665	2628.70
Permitted Coal Consumption with Transit Loss	$M=K/H / .992 \times 10^3$	Tonne	333181	328587.62
Cost of Oil per kL	N	Rs./kL	48905.45	48905.45
Cost of Coal per Tonne	O	Rs./Tonne	4720.10	4688.96
Cost of Oil	$P=L \times N / 10^5$	Rs. Lakh	440	440.16
Cost of Coal	$Q=M \times O / 10^5$	Rs. Lakh	15726	15407.34
Total Cost of Fuel	$R=P+Q$	Rs. Lakh	16167	15847.50
Energy charge rate	$S = R \times 10/A$	Paisa/kwh	501.18	491.29

**ANNEXURE – 2B-4****COMPUTATION OF FUEL COST OF BANDEL - 2 TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	854.840	854.840
Normative Auxiliary Consumption	B	%	9.00%	9.00%
Auxiliary Consumption	C	MU	84.545	84.545
Gross Admissible Generation	D	MU	939.385	939.385
Heat Rate	E	kcal/kWh	2430	2430
Permitted Oil Consumption	F	ml/kWh	1.75	1.75
Heat Value of Oil	G	kcal/L	9204.60	9204.60
Heat Value of Coal	H	kcal/kg	3297.12	3343.21
Overall Permitted Heat	$I=D \times E$	GCal	2282706	2282705.55
Permitted Heat from Oil	$J=D \times F \times G / 10^3$	GCal	15132	15131.63
Permitted Heat from Coal	$K=I-J$	GCal	2267574	2267573.92
Permitted Oil Consumption	$L=(J/G) \times 10^3$	kL	1643.92	1643.92
Permitted Coal Consumption excluding transit loss		Tonne	687744	678262.48
Transit Loss @ 0.80%		Tonne	5546	5469.86
Permitted Coal Consumption with Transit Loss	$M=K/H \times 992 \times 10^3$	Tonne	693290	683732.34
Cost of Oil per kL	N	Rs./kL	49931.65	49931.65
Cost of Coal per Tonne	O	Rs./Tonne	4720.10	4688.96
Cost of Oil	$P=L \times N / 10^5$	Rs. Lakh	821	820.84
Cost of Coal	$Q=M \times O / 10^5$	Rs. Lakh	32724	32059.94
Total Cost of Fuel	$R=P+Q$	Rs. Lakh	33545	32880.78
Energy charge rate	$S = R \times 10/A$	Paisa/kwh	392.41	384.64

**ANNEXURE – 2B-5****COMPUTATION OF FUEL COST OF SANTALDIH TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	3238.670	3238.670
Normative Auxiliary Consumption	B	%	9.00%	9.00%
Auxiliary Consumption	C	MU	320.308	320.308
Gross Admissible Generation	D	MU	3558.978	3558.978
Heat Rate	E	kcal/kWh	2425	2425
Permitted Oil Consumption	F	ml/kWh	1.00	1.00
Heat Value of Oil	G	kcal/L	9443.04	9443.04
Heat Value of Coal	H	kcal/kg	3501.99	3598.79
Overall Permitted Heat	$I=D \times E$	GCal	8630514	8630521.65
Permitted Heat from Oil	$J=D \times F \times G / 10^3$	GCal	33608	33607.59
Permitted Heat from Coal	$K=I-J$	GCal	8596906	8596914.06
Permitted Oil Consumption	$L=(J/G) \times 10^3$	kL	3558.97	3558.98
Permitted Coal Consumption excluding transit loss		Tonne	2454366	2388834.60
Transit Loss @ 0.80%		Tonne	20297	19264.80
Permitted Coal Consumption with Transit Loss	$M=K/H \times 0.992 \times 10^3$	Tonne	2474664	2408099.40
Cost of Oil per kL	N	Rs./kL	54669.05	54669.05
Cost of Coal per Tonne	O	Rs./Tonne	3779.68	3791.02
Cost of Oil	$P=L \times N / 10^5$	Rs. Lakh	1946	1945.66
Cost of Coal	$Q=M \times O / 10^5$	Rs. Lakh	93534	91291.53
Total Cost of Fuel	$R=P+Q$	Rs. Lakh	95480	93237.19
Energy charge rate	$S = R \times 10/A$	Paisa/kwh	294.81	287.89

**ANNEXURE – 2B-6****COMPUTATION OF FUEL COST OF SAGARDIGHI - I TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	2300.724	2300.724
Normative Auxiliary Consumption	B	%	9.00%	9.00%
Auxiliary Consumption	C	MU	227.544	227.544
Gross Admissible Generation	D	MU	2528.268	2528.268
Heat Rate	E	kcal/kWh	2345	2345
Permitted Oil Consumption	F	ml/kWh	1.00	1.00
Heat Value of Oil	G	kcal/L	9343.33	9343.33
Heat Value of Coal	H	kcal/kg	4450.22	4514.72
Overall Permitted Heat	$I=D \times E$	GCal	5928790	5928788.46
Permitted Heat from Oil	$J=D \times F \times G / 10^3$	GCal	23622	23622.46
Permitted Heat from Coal	$K=I-J$	GCal	5905168	5905166.00
Permitted Oil Consumption	$L=(J/G) \times 10^3$	kL	2528.27	2528.27
Permitted Coal Consumption excluding transit loss		Tonne	1326940	1307980.56
Transit Loss @ 0.80%		Tonne	10701	10548.23
Permitted Coal Consumption with Transit Loss	$M=K/H \times 992 \times 10^3$	Tonne	1337641	1318528.79
Cost of Oil per kL	N	Rs./kL	50799.28	50799.28
Cost of Coal per Tonne	O	Rs./Tonne	6372.33	6365.94
Cost of Oil	$P=L \times N / 10^5$	Rs. Lakh	1284	1284.34
Cost of Coal	$Q=M \times O / 10^5$	Rs. Lakh	85239	83936.75
Total Cost of Fuel	$R=P+Q$	Rs. Lakh	86523	85221.09
Energy charge rate	$S = R \times 10/A$	Paisa/kwh	376.07	370.41

**ANNEXURE – 2B-7****COMPUTATION OF FUEL COST OF SAGARDIGHI – II TPS FOR FY 2018-19**

Operating Parameters	Legend	Unit	Claimed	Admitted
Sent out Energy - (Scheduled)	A	MU	3226.064	3226.064
Normative Auxiliary Consumption	B	%	9.00%	9.00%
Auxiliary Consumption	C	MU	319.061	319.061
Gross Admissible Generation	D	MU	3404.817	3545.125
Heat Rate	E	kcal/kWh	2276	2424
Permitted Oil Consumption	F	ml/kWh	1.00	1.00
Heat Value of Oil	G	kcal/L	9343.33	9343.33
Heat Value of Coal	H	kcal/kg	4170.41	4244.24
Overall Permitted Heat	$I = D * E$	GCal	8068705	8593383.00
Permitted Heat from Oil	$J = D * F * G / 10^3$	GCal	33123	33123.33
Permitted Heat from Coal	$K = I - J$	GCal	8035582	8560259.67
Permitted Oil Consumption	$L = (J / G) * 10^3$	kL	3545.13	3545.13
Permitted Coal Consumption excluding transit loss		Tonne	1926810	2016912.26
Transit Loss @ 0.80%		Tonne	15539	16265.42
Permitted Coal Consumption with Transit Loss	$M = K / H / .992 * 10^3$	Tonne	1942349	2033177.68
Cost of Oil per kL	N	Rs./kL	50102.89	50102.89
Cost of Coal per Tonne	O	Rs./Tonne	5649.63	5548.75
Cost of Oil	$P = L * N / 10^5$	Rs. Lakh	1776	1776.21
Cost of Coal	$Q = M * O / 10^5$	Rs. Lakh	109736	112815.95
Total Cost of Fuel	$R = P + Q$	Rs. Lakh	111512	114592.16
Energy charge rate	$S = R * 10 / A$	Paisa/kwh	345.66	355.21



Order on FPPCA and APR of WBPDC for FY 2018-19

ANNEXURE – 2C1

COMPUTATION OF HEAT VALUE OF COAL FOR KOLAGHAT THERMAL POWER STATION FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
ECL	G3	4577.61	6550.00	6292	6401	6121
	G4	152797.85	6261.02	5914	6101	5677
	G5	60878.77	5959.11	5469	5801	5238
	G6	93999.21	5637.57	4999	5501	4800
	G7	90506.61	5377.86	4621	5201	4363
	G8	60803.21	5054.99	4163	4901	3994
	G9	3035.39	4763.28	3842	4601	3664
MCL	G9	3630.30	4816.00	3900	4601	3664
	G10	34976.62	4431.76	3478	4301	3312
	G11	202068.14	4226.61	3156	4001	2684
	G12	184682.12	3861.56	2395	3701	2160
	G13	915055.89	3536.91	1920	3401	1721
	G14	157800.68	3258.88	1513	3101	1295
	G15	20310.38	3003.51	1254	2801	1170
BCCL	G4	730.98	6101.00	5677	6101	5677
	G6	3249.24	5601.04	4946	5501	4800
	G7	12415.27	5290.59	4494	5201	4363
	G8	106028.39	4989.28	4091	4901	3994
	G9	62157.27	4746.76	3824	4601	3664
	G10	14294.33	4441.60	3489	4301	3312
	W-II	1711.00	5201.00	4363		4363
	W-III	100454.30	4966.57	4066		4066
	W-IV	378838.16	4830.30	3916		3916
CCL	G7	3043.15	5374.96	4617	5201	4363
	G8	24528.20	5017.32	4121	4901	3994
	G9	16485.96	4738.12	3815	4601	3664
	G10	69929.40	4474.04	3525	4301	3312
	G11	871.00	4200.00	3101	4001	2684
	G14	1295.99	3101.00	1295	3101	1295
	W-III	20402.61	4901.00	3994		3994
	W-IV	20514.90	4779.30	3860		3860
MSTC	G11	22721.48	4104.18	2900	4001	2684
	G12	239459.89	3894.19	2461	3701	2160
	G13	34539.75	3565.93	1963	3401	1721
	G14	15707.09	3252.19	1504	3101	1295
	G15	7854.84	3059.06	1277	2801	1170
	G16	7415.94	2631.38	1099	2501	1044
	G17	3767.16	2422.00	1011	2201	919
IMPORTED/ WASHED	G6	25186.63	5573	5573	5573	5573
	G7	9282.96	5382	5382	5382	5382
	G10	22838.34	4317	4317	4317	4317
	G11	724463.91	4225	4225	4225	4225
A	Weighted Average		4292.22	3318.62		3165.12



Order on FPPCA and APR of WBPDC for FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
DIVERTED	G4	7215.30	6250.00	5898	6101	5677
	G7	32814.80	5334.11	4557	5201	4363
	G8	15273.30	5010.10	4113	4901	3994
	G9	7235.20	4822.99	3908	4601	3664
	G10	32931.40	4396.52	3440	4301	3312
	G11	60353.95	4210.17	3122	4001	2684
	G12	14597.10	3811.02	2321	3701	1546
	G13	10831.72	3448.73	1791	3401	1420
	G14	18026.79	3295.76	1567	3101	1295
	G15	3741.50	2936.00	1226	2801	1170
	W-III	3584.30	4901.00	3994		3994
	W-IV	11140.20	4890.62	3982		3982
B	Weighted Average		4435.75	3351.08		3063.52
C	WEIGHTED AVERAGE		4299.75	3320.32		3159.79



Order on FPPCA and APR of WBPDCCL for FY 2018-19

ANNEXURE – 2C2

COMPUTATION OF HEAT VALUE OF COAL FOR BAKRESWAR THERMAL POWER STATION FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
ECL	G2	464.77	6710.00	6446	6701	6437
	G3	21172.59	6488.40	6233	6401	6121
	G4	558848.86	6241.87	5886	6101	5677
	G5	632754.34	6005.81	5537	5801	5238
	G6	334746.94	5642.93	5007	5501	4800
	G7	658197.06	5408.05	4665	5201	4363
	G8	408860.84	5096.35	4211	4901	3994
	G9	144639.50	4779.37	3860	4601	3664
	G10	87600.54	4477.73	3529	4301	3312
	G11	23303.81	4176.76	3052	4001	2684
	G12	16769.56	3831.26	2351	3701	2160
	G13	6893.67	3588.60	1996	3401	1721
	G14	13485.04	3301.25	1575	3101	1295
	G15	12669.53	2928.00	1223	2801	1170
	G16	1903.42	2530.00	1057	2501	1044
MCL	G8	3506.40	4965.00	4064	4901	3994
	G9	3387.76	4628.00	3694	4601	3664
	G10	14178.88	4367.74	3408	4301	3312
	G11	39005.40	4154.13	3005	4001	2684
	G12	46904.56	3868.09	2406	3701	2160
	G13	74953.07	3577.63	1980	3401	1721
	G14	81011.45	3305.15	1581	3101	1295
	G15	37645.68	2904.87	1213	2801	1170
	G16	29913.97	2696.48	1126	2501	1044
	G17	14724.80	2297.54	959	2201	919
BCCL	G6	2535.72	5765.54	5186	5501	4800
	G7	893.16	5218.36	4388	5201	4363
	G8	5087.05	5188.03	4344	4901	3994
	G9	11172.41	4819.16	3904	4601	3664
	G10	9042.21	4503.70	3557	4301	3312
	G11	5108.86	4154.63	3006	4001	2684
	G12	7409.98	3882.62	2437	3701	2160
	G13	4060.35	3570.01	1968	3401	1721
	G14	1739.71	3320.00	1603	3101	1295
	W-III	987.63	5189.00	4346		4346
	W-IV	48583.71	4877.93	3968		3968
CCL	G6	10956.96	5587.28	4926	5501	4800
	G7	11093.67	5405.37	4661	5201	4363
	G8	3861.15	5190.00	4347	4901	3994
	G10	42592.37	4586.40	3648	4301	3312
	W-IV	3633.06	4888.00	3979		3979
IMPORTED/ WASHED	G6	2879.89	5509	5509	5509	5509
	G7	2861.97	5342	5342	5342	5342
	G8	229.32	5167	5167	5167	5167



Order on FPPCA and APR of WBPDCCL for FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
MSTC/ WBMDTCL	G10	2627.50	4331	4331	4331	4331
	G11	94105.91	4229	4229	4229	4229
	G8	3903.26	4948.00	4045	4901	3994
	G9	3726.63	4676.00	3747	4601	3664
	G10	3598.90	4471.00	3521	4301	3312
	G11	106433.88	4133.41	2961	4001	2684
	G12	128128.36	3850.20	2378	3701	2160
	G13	79757.68	3545.29	1932	3401	1721
	G14	35304.43	3363.60	1667	3101	1295
	G15	11047.60	2984.06	1246	2801	1170
	G16	3751.47	2738.00	1143	2501	1044
A	Weighted Average		5158.87	4364.36		4127.72
B	CAPTIVE BARJORA COAL MINE	146576.75	5313.48	4527	5313.48	4527
DIVERTED	G4	7309.20	6387.54	6102	6101	5677
	G5	10198.70	6087.56	5657	5801	5238
	G6	6877.80	5790.00	5222	5501	4800
	G7	10195.30	5487.91	4781	5201	4363
	G8	67.59	5185.00	4340	4901	3994
	G11	7302.60	4284.99	3278	4001	2684
	G12	3568.40	3988.00	2657	3701	1546
	G13	3627.80	3690.00	2144	3401	1420
	G14	3337.30	3389.00	1704	3101	1295
C	Weighted Average		5241.83	4460.96		3949.25
D	WEIGHTED AVERAGE		5165.44	4371.39		4139.67



Order on FPPCA and APR of WBPDCCL for FY 2018-19

ANNEXURE – 2C3

COMPUTATION OF HEAT VALUE OF COAL FOR BANDEL THERMAL POWER STATION FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
ECL	G3	1454.79	6410.00	6135	6401	6121
	G4	143189.08	6119.23	5704	6101	5677
	G5	47951.87	5812.92	5255	5801	5238
	G6	43162.54	5530.17	4843	5501	4800
	G7	29102.77	5246.14	4429	5201	4363
	G8	6269.73	4996.09	4098	4901	3994
	G9	7809.37	4712.65	3787	4601	3664
	G10	17940.45	4478.57	3530	4301	3312
	G11	8973.91	4147.22	2990	4001	2684
	G12	12815.57	3895.78	2464	3701	2160
	G13	4523.60	3572.47	1972	3401	1721
	G9	3569.73	4889.00	3980	4601	3664
	G10	3890.96	4392.00	3435	4301	3312
MCL	G12	10543.75	3905.95	2486	3701	2160
	G13	17298.49	3518.84	1894	3401	1721
	G14	7189.42	3294.94	1566	3101	1295
	G15	2877.27	2942.00	1229	2801	1170
	G16	13009.91	2682.00	1120	2501	1044
	G5	1374.90	5810.00	5251	5801	5238
	G6	1529.35	5680.00	5061	5501	4800
BCCL	G7	2696.82	5306.09	4516	5201	4363
	G8	6854.79	5033.04	4139	4901	3994
	G9	10479.26	4703.06	3776	4601	3664
	G10	6995.00	4392.29	3435	4301	3312
	G11	25049.41	4155.80	3008	4001	2684
	G12	21228.88	3766.87	2256	3701	2160
	G13	16334.69	3575.39	1976	3401	1721
	G14	6342.57	3304.38	1580	3101	1295
	G15	10226.04	2980.00	1244	2801	1170
	G16	7033.42	2613.75	1092	2501	1044
WASHED	G11	177344.64	4346.12	4346	4346	4346
MSTC	G10	11555.70	4465.98	3516	4301	3312
	G11	26816.48	4083.21	2856	4001	2684
	G12	70459.23	3868.82	2408	3701	2160
	G13	48304.34	3590.26	1998	3401	1721
	G14	4028.56	3115.00	1303	3101	1295
	G15	7326.00	3091.23	1291	2801	1170
	G10	11601.51	4410.91	3455	4301	3312
WBMDTCL	G11	45811.42	4159.40	3016	4001	2684
	G12	84947.97	3847.39	2374	3701	2160
	G13	48541.71	3555.91	1948	3401	1721
	G14	22525.41	3339.87	1632	3101	1295
	G15	7326.00	3091.23	1291	2801	1170
A	Weighted Average		4445.03	3503.01		3364.58



Order on FPPCA and APR of WBPDC for FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
DIVERTED	G7	3831.36	5258.00	4446	4601	3664
	G11	15287.09	4226.78	3157	4001	2684
	G13	3265.90	3518.00	1892	3401	1420
	G14	3849.08	3299.00	1572	3101	1295
	G15	21690.09	2989.00	1248	2801	1170
	G16	36527.33	2742.92	1145	2501	1044
	G17	18643.91	2351.00	982	2201	919
B	Weighted Average		3082.63	1597.96		1409.93
C	WEIGHTED AVERAGE		4323.95	3333.71		3190.87



Order on FPPCA and APR of WBPDC for FY 2018-19

ANNEXURE – 2C4

COMPUTATION OF HEAT VALUE OF COAL FOR SANTALDIH THERMAL POWER STATION FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
BCCL	G5	5935.41	5908.36	5395	5801	5238
	G6	32404.85	5655.29	5025	5501	4800
	G7	85215.04	5186.56	4342	5201	4363
	G8	313434.56	4854.86	3943	4901	3994
	G9	275199.52	4742.13	3819	4601	3664
	G10	234236.98	4451.44	3500	4301	3312
	G11	163591.28	4153.89	3004	4001	2684
	G12	94729.54	3888.27	2449	3701	2160
	G13	72710.98	3582.97	1987	3401	1721
	G14	19630.32	3278.79	1543	3101	1295
	G15	10698.02	2966.89	1239	2801	1170
	G16	1977.88	2669.89	1115	2501	1044
	G17	813.26	2430.00	1015	2201	919
	W-I	3002.71	6439.74	6179		6179
	W-II	24273.08	4945.51	4042		4042
	W-III	522700.65	4610.22	3674		3674
	W-IV	451462.64	4858.67	3947		3947
	No Grade	3443.72	1884.43	787		787
CCL	G5	2345.16	5890.00	5368	5801	5238
	G6	950.72	5610.00	4959	5501	4800
	G7	5524.44	5363.87	4600	5201	4363
	G8	8706.09	5039.65	4146	4901	3994
	G9	4386.45	4726.83	3802	4601	3664
	G10	9807.67	4543.96	3602	4301	3312
BCCL - E - AUCTION	G5	3416.01	5995.00	5521	5801	5238
	G6	3445.01	5659.00	5031	5501	4800
	G7	17725.96	5371.28	4611	5201	4363
	G8	31209.75	5005.25	4108	4901	3994
	G9	6540.85	4744.79	3822	4601	3664
	G10	10295.63	4426.82	3473	4301	3312
	G11	14178.87	4143.75	2983	4001	2684
	G12	17800.65	3872.41	2415	3701	2160
	W-III	3340.64	5956.00	5464		5464
	W-IV	14456.54	5614.06	4965		4965
MSTC IMPORT	G6	16452.79	5679	5679	5679	5679
MSTC INDIGENEOUS	G10	3552.01	4346.00	3384	4301	3312
	G11	7153.19	4116.64	2926	4001	2684
	G12	72545.13	3858.63	2391	3701	2160
	G13	27930.91	3622.41	2045	3401	1721
A	Weighted Average		4606.74	3610.75		3519.28
DIVERTED	G11	3426.91	4138.00	2971	4001	2684
	G12	3202.92	3895.00	2463	3701	2160
	G13	9812.07	3583.47	1988	3401	1420
	G14	6919.89	3287.41	1555	3101	1295



Order on FPPCA and APR of WBPDCCL for FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
	G15	3423.19	2912.43	1216	2801	1170
B	Weighted Average		3529.42	1960.14		1606.09
C	WEIGHTED AVERAGE		4595.74	3593.90		3499.75



Order on FPPCA and APR of WBPDC for FY 2018-19

ANNEXURE – 2C5

COMPUTATION OF HEAT VALUE OF COAL FOR SAGARDIGHI THERMAL POWER STATION STAGE-I FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
ECL	G3	12496.00	6444.00	6185	6401	6121
	G4	135326.95	6239.00	5881	6101	5677
	G5	98568.65	5961.00	5472	5801	5238
	G6	80905.38	5633.00	4993	5501	4800
	G7	134459.95	5333.00	4555	5201	4363
	G8	95889.58	5073.00	4182	4901	3994
	G9	67864.30	4758.00	3837	4601	3664
	G10	20106.52	4470.00	3520	4301	3312
	G11	4993.10	4192.00	3084	4001	2684
	G12	4524.20	3823.00	2339	3701	2160
	G13	16305.55	3479.00	1835	3401	1721
	G14	10824.65	3249.00	1499	3101	1295
	G15	4561.60	2988.00	1248	2801	1170
	G16	3052.18	2702.00	1128	2501	1044
ECL - E-AUCTION	G4	22362.53	6162.00	5767	6101	5677
	G5	113977.69	5861.00	5325	5801	5238
	G6	166438.61	5562.00	4889	5501	4800
	G7	113859.69	5261.00	4451	5201	4363
	G8	100405.15	4954.00	4052	4901	3994
	G9	41287.94	4676.00	3747	4601	3664
	G10	14000.05	4386.00	3428	4301	3312
	G11	3259.65	4066.00	2820	4001	2684
	G12	3558.66	3776.00	2270	3701	2160
	G13	3484.25	3470.00	1822	3401	1721
BCCL	G7	3939.50	5365.00	4602	5201	4363
MSTC/ WBMDTCL	G8	3603.33	5172.00	4321	4901	3994
	G9	7127.90	4655.00	3723	4601	3664
	G10	13103.28	4440.00	3487	4301	3312
	G11	46257.11	4140.00	2975	4001	2684
	G12	28413.87	3828.00	2346	3701	2160
	G13	15634.13	3490.00	1851	3401	1721
	G14	7543.96	3253.00	1505	3101	1295
	G15	3841.44	3014.00	1259	2801	1170
IMPORTED	G5	16145.91	5954.00	5954	5801	5954
	G6	12882.49	5689.00	5689	5501	5689
	G7	1043.80	5450.00	5450	5201	5450
	G8	3206.88	5009.00	5009	4901	5009
A	Weighted Average		5274.96	4513.83		4367.01
B	DIVERTED	G6	3332.60	5774.00	4001	2684.44
C	WEIGHTED AVERAGE		5276.12	4515.42		4363.11



Order on FPPCA and APR of WBPDCCL for FY 2018-19

ANNEXURE – 2C6

COMPUTATION OF HEAT VALUE OF COAL FOR SAGARDIGHI THERMAL POWER STATION STAGE – II FOR FY 2018-19

Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
		MT	kCal/ kg			
ECL	G3	2451.05	6441.00	6181	6401	6121
	G4	144201.00	6223.00	5858	6101	5677
	G5	89202.18	5958.00	5467	5801	5238
	G6	98959.94	5599.00	4943	5501	4800
	G7	116345.59	5318.00	4534	5201	4363
	G8	118793.38	5010.00	4113	4901	3994
	G9	50516.84	4714.00	3788	4601	3664
	G10	29817.58	4396.00	3439	4301	3312
	G11	15549.42	4149.00	2994	4001	2684
	G12	1250.30	3760.00	2246	3701	2160
	G13	8730.08	3548.00	1936	3401	1721
	G14	2233.36	3255.00	1508	3101	1295
	G15	14818.97	2928.00	1223	2801	1170
	G16	9071.91	2603.00	1087	2501	1044
CCL	G4	3488.86	6109.00	5689	6101	5677
	G5	3606.13	5825.00	5273	5801	5238
	G6	7523.63	5514.00	4819	5501	4800
	G7	11063.45	5243.00	4424	5201	4363
	G8	7399.10	4319.00	3350	4901	3994
	G9	3966.14	3702.00	2162	4601	3664
BCCL	G6	6092.40	5613.00	4963	5501	4800
	G7	10982.46	5204.00	4368	5201	4363
	G8	5153.66	5020.00	4124	4901	3994
	G9	6013.88	4627.00	3693	4601	3664
	G10	15364.41	4310.00	3331	4301	3312
	G11	8553.62	4092.00	2875	4001	2684
	G12	3235.66	3940.00	2557	3701	2160
	G13	3530.00	3407.00	1730	3401	1721
E-AUCTION ECL	G4	548330.80	6103.00	5680	6101	5677
	G5	1079.96	5691.00	5077	5801	5238
	G6	1289.43	5262.00	4452	5501	4800
	G7	2342.21	4952.00	4050	5201	4363
	G8	2323.65	4633.00	3699	4901	3994
MSTC/ WBMDTCL	G7	3411.78	5300.00	4507	5201	4363
	G9	45853.73	4687.00	3759	4601	3664
	G10	143484.90	4418.00	3463	4301	3312
	G11	187293.09	4139.00	2973	4001	2684
	G12	175349.53	3883.00	2438	3701	2160
	G13	99140.78	3540.00	1925	3401	1721
	G14	38476.65	3307.00	1584	3101	1295
	G15	11485.90	3001.00	1253	2801	1170
IMPORTED	G4	2796.89	6231	6231	6231	6231
	G5	12173.49	5913	5913	5913	5913
	G6	8776.38	5626	5626	5626	5626



Order on FPPCA and APR of WBPDCCL for FY 2018-19

	Source	Grade	Quantity	Gross calorific Value (GCV) claimed by the Generating Station	Useful heat value (UHV) calculated as per Regulation 5.8.15	Minimum GCV of each grade of coal	'X' value as per reg 5.8.1 (i) considering minimum GCV of each grade of coal
			MT	kCal/ kg			
		G7	2087.59	5450	5450	5450	5450
A	Weighted Average			5079.32	4243.87		4114.39
B	CAPTIVE BARJORA COAL MINE		168455.80	5313.48	4527	5313.48	4527
	DIVERTED	G5	3507.40	5854.00	5315	5801	5238
		G8	3534.20	5150.00	4289	4901	3994
		G9	3933.40	4642.00	3709	4601	3664
		G11	3662.88	4233.00	3170	4001	2684
		G12	3584.60	3895.00	2463	3701	2160
		G13	7860.97	3683.00	2134	3401	1721
		G14	3783.10	3359.00	1660	3101	1295
		G15	3735.00	3028.00	1265	2801	1170
C	Weighted Average			4149.46	2874.99		2597.28
D	WEIGHTED AVERAGE			5082.91	4244.61		4122.50



Order on FPPCA and APR of WBPDCCL for FY 2018-19

ANNEXURE – 3

COMPUTATION OF LANDED PRICE OF COAL DURING FY 2018-19

Particulars	Unit	Derivatives	KTPS	BkTPS	BTPS	STPS	SgTPS - I	SgTPS - II
Net Coal Received (excluding captive)	MT	A	4151008.52	3978597.89	1159625.64	2610781.89	1434571.38	2110005.51
Net Amount Paid (excluding captive)	Rs. Lakh	B	114748.80	155239.68	46135.66	92446.74	83976.82	113080.16
Quantity of Coal Received from Captive Source	MT	C	0	146576.75	0	0	0	168455.80
Amount paid for captive coal @ input price of Rs. 2515.18/ton	Rs. Lakh	D	0	3686.67	0	0	0	4236.97
Total coal received during the year	MT	E = A+C	4151008.52	4125174.64	1159625.64	2610781.89	1434571.38	2278461.31
Total amount paid for coal	Rs. Lakh	F=B+D	114748.80	158926.35	46135.66	92446.74	83976.82	117317.13
Total Freight Charge	Rs. Lakh	G	44377.29	15705.04	8371.23	6494.35	7404.10	9241.07
Total landed cost of coal received	Rs. lakh	H=F+G	158839.92	174568.01	54289.04	98941.09	91380.92	126558.20
Average landed price of coal received	Rs. / MT	I=H*10^5/E	3833.43	4233.31	4700.39	3789.71	6369.91	5554.55



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ANNEXURE – 4

COMPUTATION OF PRICE AND HEAT VALUE OF COAL CONSUMED DURING FY 2018-19

Particulars	Derivatives	KTPS	BkTPS	BTPS	STPS	SgTPS - I	SgTPS - II
Stock Quantum (in MT)							
Opening Stock	A	1481.88	148782.00	28274.73	38066.45	3000.00	12990.99
Coal received during the year	B	4151008.52	4125174.64	1159625.64	2610781.89	1434571.38	2278461.31
Coal consumed	C	3876851.50	4162942.15	1107460.99	2493665.53	1437352.69	2170239.30
Closing stock	D = A+B-C	275638.90	111014.49	80439.38	155182.81	218.69	121213.00
Stock price (in Rs. /MT)							
Price of opening stock *	E	3429.92	4140.57	4220.23	3880.84	4467.05	4531.36
Price of coal received	F	3833.43	4233.31	4700.39	3789.71	6369.91	5554.55
Price of coal consumed	$G=(A*E+B*F)/(A+B)$	3833.29	4230.08	4688.96	3791.02	6365.94	5548.75
Price of Closing Stock	$H=(A*E+B*F)/(A+B)$	3833.29	4230.08	4688.96	3791.02	6365.94	5548.75
UHV of Coal (in Kcal/Kg)							
Heat value of opening stock *	I	3478.23	4204.49	3732.75	3934.02	4179.07	4179.07
Heat value of coal received	J	3320.32	4371.39	3333.71	3593.90	4515.42	4244.61
Heat value of coal consumed	$K=((A*I+B*J)/(A+B))$	3320.38	4365.58	3343.21	3598.79	4514.72	4244.24
Heat value of Closing Stock	$L=((A*I+B*J)/(A+B))$	3320.38	4365.58	3343.21	3598.79	4514.72	4244.24
* Note: The price and heat value of opening stock is taken from APR Order of 2017 – 18 dated 22.09.2022							



CHAPTER-3

FIXED COST DETERMINATION UNDER APR

3.1. The Fixed Cost elements are analysed as below:

3.2. **Project Cost of Bakreswar TPS Stage II, Santaldih, Bandel Unit V and Sagardighi TPS Stage I & II Generating Stations**

The Commission vide paragraph 4.3.5 and 4.3.6 in the Tariff Order dated 14.07.2021 for 2018 – 19 had decided to withhold the Return on Equity (RoE), Interest on Loan and Depreciation by 5% for the purpose of tariff determination due to non-submission of final project cost for Bakreswar Stage II, Santaldih, Bandel Unit V and Sagardighi TPS Stage I and Stage II generating stations. The Commission decides to continue with the principle of Tariff Order for FY 2018-19 by reducing 5% from the admissible amount of Depreciation, Interest on Borrowings and RoE from such generating stations, except for Santaldih Unit – V, where final project cost has been approved by the Commission.

Subsequently from 2022 onwards, WBPDCCL has submitted application for approval of the final project cost of some of the generating stations. The Commission, at this juncture, is in process of scrutinizing the submitted applications. The mode of release of the withheld amount for such plants shall be specified after finalization of the process.

3.3. **Additional Capitalization**

3.3.1. WBPDCCL has claimed an amount of Rs. 46017.26 Lakh as additional capitalization for its generating stations in the APR Petition. The Commission directed WBPDCCL to submit the details of the additional capitalisation during FY 2018-19 so that, the same may be verified with respect to the approvals received by WBPDCCL from the Commission, if any. In response, WBPDCCL submitted the details of additional capitalisation for FY 2018-19 as under:

Table 17: Additional Capitalization Claimed for FY 2018-19 (Rs. Lakh)

Plant	Claimed				Total
	Asset addition	Roof Top Solar Project	Ground Mounted Solar Project	CAPEX under Regulation 5.2.3	
Kolaghat	4115.45	1164.17	0.00	78.25	5357.87
Bakreswar	19298.69	1466.63	0.00	51.74	20817.06
Bandel I	49.43	0.00	0.00	0.95	50.38
Bandel II	577.65	557.76	0.00	12.75	1148.16
Santaldih	805.14	413.73	0.00	191.37	1410.24
Sagardighi I	8151.13	1829.86	4778.95	106.18	14866.12
Sagardighi II	2361.88	0.00	0.00	5.55	2367.43
Total	35359.37	5432.15	4778.95	446.79	46017.26



3.3.2. The Commission has analysed the additional capitalization claimed by WBPDCCL on the basis of the following:

- i) Kolaghat TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. ERP by adjusting the grants received. Besides, capital expenditures for assets replaced are allowed only to the extent that those replaced assets are recognized as retired and disclosed in the note pertaining to Fixed Assets. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses.
- ii) Bakreswar TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. Ash Pond and ERP by adjusting the grants received. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses. Other additional capitalizations claimed will be considered at the time of approval of the final project cost.
- iii) Bandel Stage I TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. ERP. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses.



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- iv) Bandel Stage II TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. Bull Dozer, Islanding Scheme and ERP by adjusting the grants received. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses. Other additional capitalizations claimed will be considered at the time of approval of the final project cost.
- v) Santaldih TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. ERP. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses. Other additional capitalizations claimed will be considered at the time of approval of the final project cost.
- vi) Sagardighi Stage I TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii) capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. ERP. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses. Other additional capitalizations claimed will be considered at the time of approval of the final project cost.
- vii) Sagardighi Stage II TPS: The Commission observed that the additional capital expenditure claimed by WBPDCCL includes (i) asset replacements (ii) procurement of spares/ furniture (iii)



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capital expenditure to improve operating performance (iv) capital expenditure for solar projects and (v) some repair and maintenance nature of jobs. The Commission decides to allow the additional capital expenditure to the extent claimed for safety & environmental requirements and expenditure of some specific nature viz. ERP. The Commission also observed that capital expenditure under regulation 5.2.3 and work falling under repair and maintenance nature shall not be considered as Capital addition and thus the same is considered under Operation and Maintenance Expenses. Other additional capitalizations claimed will be considered at the time of approval of the final project cost.

- viii) Regarding the proposed Ground Mounted Solar Project at Sagardighi Stage I, WBPDCCL shall submit separate petition as per the provisions of the relevant regulations.

3.3.3. In view of the above, the Additional Capitalisation admitted by the Commission for the purpose of Tariff is summarised below:

Table 18: Additional Capitalization Admitted for FY 2018-19 (Rs. Lakh)

Plant	Claimed	New/ Fresh Asset Addition	Replaced asset	Roof- top Solar Project	Asset addition, subject to finalization of project cost	Expenses considered under O&M	Grant adjustment	Total Additional Capitalization Admitted
	A	B1	B2	B3	B4	B5	C	D = B1+B2+B3-C
Kolaghat	5357.87	3652.96	241.37	1164.17	0.00	299.37	1164.17	3894.33
Bakreswar	20817.06	19091.94	0.00	1466.63	170.18	88.31	19794.57	764.00
Bandel I	50.38	49.43	0.00	0.00	0.00	0.95	0.00	49.43
Bandel II	1148.16	504.16	0.00	557.76	60.32	25.92	712.83	349.09
Santaldih	1410.24	379.53	0.00	413.73	168.84	448.14	413.73	379.53
Sagardighi I	14866.12	365.51	0.00	1829.86	12615.95 #	54.80	1829.86	365.51
Sagardighi II	2367.43	282.17	0.00	0.00	2079.71	5.55	0.00	282.17
Total	46017.26	24325.70	241.37	5432.15	15095.00	923.04	23915.16	6084.06

Claim of Additional Capitalization has been segregated into different heads (A = B1 + B2 + B3 + B4 + B5)
Includes Rs. 4778.95 Lakh for proposed Ground Mounted Solar Project

3.4. Employee Cost

- 3.4.1. Employee cost include mainly salary and wages, expenditure on account of terminal benefits to the employees and welfare expenses viz. medical expenses and centrally maintained employee cost apportioned to the generating stations. WBPDCCL further submitted that expenses towards contractual manpower are to be considered in the Employee Cost as per their Supplementary Petition. The cost of contractual man power, which was earlier considered as a part of the O&M Expenses has been segregated and claimed as a part of the employee cost in the supplementary petition. The total employee cost considered in the said Tariff Order relating to 2018-19 for each of the generating stations



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and the same as per the Audited Financial Statements for 2018-19 with reason thereof based upon the data submitted by WBPDCCL are found as under:

Table 19: Employee cost claimed by WBPDCCL

Power Station	Tariff Order	Claimed in the Original Petition	Claimed Additionally in the Supplementary Petition	Figures in Rs. Lakh
				Total Claimed
Kolaghat	13318.76	14024.57	4731.93	18756.50
Bakreswar	13362.71	14209.13	2568.28	16777.41
Bandel I	2340.60	2430.98	1032.44	3463.42
Bandel II	4193.38	4355.50	1849.79	6205.29
Santalidih	9919.04	10412.40	1946.10	12358.50
Sagardighi I	5159.58	7418.11	370.56	7788.67
Sagardighi II	7234.74	5725.92	617.61	6343.53
Total	55528.81	58576.59	13116.71	71693.30

3.4.2. From the documents submitted by WBPDCCL and written submission, the Commission's findings are as follows:

- (a) The total number of employees in each operating generating station under review is as per the specified norms of Man/MW ratio except for BTPS as redeployment of man power on account of decommissioning of Units 3 & 4 is under process. However, the overall manpower remains within the total normative manpower limits stipulated in the Tariff Regulations.
- (b) The Employee Cost as per Form 1.17 (h) is Rs. 58576.59 Lakh (inclusive of Director's Sitting Fees of Rs. 6.14 Lakh and employee's terminal benefit expenses of Rs. 18309.17 Lakh). This is in line with the Tariff Regulations where Director's fee and remuneration are part of employee cost. The Commission observes that in the Audited Financial Statements (Note 36), 'Employee Benefit Expenses' appears to the extent of Rs. 49721.75 Lakh, Other Comprehensive Income of Rs. 8848.71 Lakh in Audited Financial Statements (Note 36.1), 'Directors' Sitting Fees & Other Expenses' of Rs. 6.14 Lakh. The Commission also observes that the Other Comprehensive Income of Rs. 8848.71 Lakh appears in the Statement of Profit and Loss as negative adjustment. Hence, Commission decides to consider a sum of Rs. 58576.59 Lakh (49721.75 + 6.14 + 8848.71) towards Employee Expenses including Directors' Sitting Fees and OCI.
- (c) WBPDCCL has submitted the claim of employees' terminal benefits of Rs.18309.17 Lakh including OCI of Rs. 8848.71 Lakh which is included as a part of the Employee Cost as per the Note 36 of the Audited Financial Statements. The Commission observes that Note 46.2 provides that sum of Rs. 2563.77 Lakh, Rs. 5211.54 Lakh and Rs. 1685.55 Lakh pertains to defined benefit plan of Gratuity, Pension and Leave Encashment scheme respectively. Besides, Rs. 8848.71 Lakh appears as negative adjustment under OCI. Therefore, the total amount under terminal benefit



arrives at Rs. 18309.17 Lakh. Further, it is evident from Note 47 of the Audited Financial Statements for FY 2018-19 that, the Company does not have separate funds for General Provident Fund, Pension Fund, Gratuity Fund and Leave Encashment Fund. An amount of Rs. 117394.27 Lakh has been invested in term deposits with scheduled banks out of which Rs. 104297.77 Lakh pertains towards liability for General Provident Fund, Pension Fund, Gratuity Fund & Leave Encashment Fund and the same is reflected at Notes 22, 23 and 31. In absence of any specific created funds, it could not be ascertained from the submitted documents as to whether the amount admitted through tariff under the heads of terminal benefit expenses have been utilized for the sole purpose for which they had been admitted. The utilization of interest earned on the equivalent amount parked in Fixed Deposits is also not available from the submission. Accordingly, WBPDCCL is directed to comply with the directions given in paragraph 3.1.7 of the APR Order for FY 2015-16 dated 30.05.2022 regarding creation of defined benefit funds.

- (d) WBPDCCL vide supplementary petition dated 08.03.2022 has proposed to consider Rs. 13116.71 lakh paid towards contractual manpower cost as a part of employee expenses. WBPDCCL inter-alia submitted that it had initially considered such cost as a part of O&M expenses in its APR petition, but as their overall O&M expenses exceeds beyond the normative expenses allowed under O&M, they in the supplementary petition prayed to include these costs under employee expenses.

The Commission observes that, O&M expenses are controllable items, where the generating company has to maintain their expenses within the norms. On the other hand, employee cost is considered as an uncontrollable item, where actual cost is allowable subject to prudent check. Thus, the expenses considered under controllable head in the tariff order cannot be treated as uncontrollable during truing up.

In the supplementary petition, WBPDCCL prayed to consider cost of 'contracted manpower' under employee cost, which was claimed under O&M expenses in the main APR petition. This tantamount to subsequent change of the nature of expenses from controllable to uncontrollable. The Commission also notes that, in their Audited Financial Statement, the cost has been booked under O&M expenses. So, the proposed change via supplementary petition is not considered.

Moreover, the Commission notes that, in terms of regulation 5.9.1 of the Tariff Regulations, contractual manpower if engaged in 'regular establishment', can only be considered under



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employee cost. In this connection note (x) of paragraph A of Schedule-9A of the Tariff Regulations may also be referred to.

- (e) Thus, the Commission admits the employee cost of Rs. 58576.59 Lakh which includes Rs. 18309.17 Lakh claimed as per the requirement under IndAS-19 on account of terminal benefit.

3.4.3. Employee cost being uncontrollable in nature, the Commission decides to admit the employee cost of Rs. 58576.59 Lakh in APR for FY 2018-19. The station wise allocation of the employee cost is as below:

Table 20: Employee cost admitted for FY 2018-19

Figures in Rs. Lakh

Power Station	Tariff Order	Claimed in original APR petition	Admitted
Kolaghat	13318.76	14024.55	14024.55
Bakreswar	13362.71	14209.12	14209.12
Bandel I	2340.60	2430.98	2430.98
Bandel II	4193.38	4355.50	4355.50
Santaldih	9919.04	10412.40	10412.40
Sagardighi I	5159.58	7418.12	7418.12
Sagardighi II	7234.74	5725.92	5725.92
Total	55528.81	58576.59	58576.59

3.5. Coal and Ash Handling Expenses

- 3.5.1. WBPDCCL has claimed a sum of Rs 8453.04 Lakh on the account of Coal and Ash handling Charges, Railway Staff Cost, De-railment and Re-railment Charges, Ash evacuation cost and Other Charges as per Railway Regulations which is also observed to have been recognised in the Note 38 of Financial Statements for FY 2018 – 19. The Expenses claimed by WBPDCCL under this head is as below:

Table 21: Coal and Ash Handling Expenses Claimed for FY 2018-19 (Rs. Lakh)

Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Coal and Ash Handling Expenses	3363.68	2100.31	73.36	131.43	1767.00	574.11	443.15

- 3.5.2. The Commission notes that the generation of all generating stations, except Santaldih, has gone down from targeted generation as outlined in the Tariff Order whereas the cost of coal and ash handling expenses, except Bandel, has increased from the amount admitted in the Tariff Order for FY 2018-19. WBPDCCL stated that the increase in coal and ash handling charges, is due to deterioration in coal quality resulting from its high ash content. The Commission is of the considered opinion that while projecting the cost for sixth control period in its tariff petition, WBPDCCL ought to have considered these issues. On the contrary, their petition is devoid of projections accounted for potential improvements on



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the basis of changed scenario. Thus, the Commission finds the contention as set forth by WBPDCCL, not too conclusive.

- 3.5.3. The Commission directed the Petitioner to submit the detailed break-up of the Coal and Ash Handling expenses claimed under different heads. WBPDCCL has provided the detail break up of coal and ash handling expenses incurred during 2018 – 19. WBPDCCL vide letter dated 17.02.2025 has submitted a certificate from a Chartered Accountant Firm affirming that the sale proceeds from Sale of Fly Ash stands duly adjusted with the Ash Handling and Ash Evacuation Cost in terms of the MoEFCC guidelines. The details provided by the Petitioner is summarised as under:

Table 22: Break-up of Coal and Ash Handling Expenses for FY 2018-19

Figures in Rs. Lakh

Particulars	Kolaghat	Bakreswar	Bandel I & II	Santaldih	Sagardighi I	Sagardighi II	Total
Coal Handling Charges	1367.43	478.35	41.98	478.81	56.10	43.31	2465.98
Ash Handling Charges	485.78	212.40	2.20	201.64	13.06	10.08	925.16
Railway Staff Cost	83.69	0.00	67.28	0.00	0.06	0.04	151.07
De/re - railment Charges	16.23	15.18	1.44	12.28	4.07	3.15	52.35
Ash Evacuation Cost	1234.05	1178.37	52.88	962.57	397.33	306.69	4131.89
Coal Sampling Cost	176.50	216.01	39.01	111.70	103.49	79.88	726.59
Total	3363.68	2100.31	204.79	1767.00	574.11	443.15	8453.04

- 3.5.4. After careful analysis of these aspects, the Commission considers the actual generation with respect to targeted generation to determine the admissible amount for the actual generation based on the reference to the target set for generation. The quantum of actual generation achieved during FY 2018-19 at the stated generating stations of WBPDCCL is compared with the targeted generation based on normative PLF specified in the Tariff Regulations to arrive at proportionate expenses allowable. The admitted amount comes to Rs. 5905.07 Lakh and is shown in the table as follows:

Table 23: Coal and Ash Handling Expenses Admitted for FY 2018-19

Power Station	Target Generation (MU)	Amount Approved in Tariff Order (Rs Lakh)	Actual Generation (MU)	Expenses proportionate to Actual Generation (Rs Lakh)	Actual Expenses (Rs Lakh)	Expenses Admitted (Rs Lakh)
Kolaghat	7726.32	3285.07	4422.87	1880.51	3363.68	1880.51
Bakreswar	7358.40	1839.05	7182.22	1795.02	2100.31	1795.02
Bandel I	683.28	82.81	369.81	44.82	73.36	44.82
Bandel II	1506.72	195.43	945.57	122.65	131.43	122.65
Santaldih	3504.00	1624.01	3552.62	1646.54	1767.00	1646.54
Sagardighi I	4204.80	375.15	2624.88	234.19	574.11	234.19
Sagardighi II	7008.00	370.93	3426.04	181.34	443.15	181.34
Total	31991.52	7772.45	22524.01	5905.07	8453.04	5905.07

3.6. Water Charges

- 3.6.1. The actual amount of total expenditure incurred by WBPDCCL under this uncontrollable head of water charges in 2018-19 is Rs. 455.07 Lakh against Rs. 411.56 Lakh allowed in the tariff for the concerned



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year. The Note 38 of Audited Financial Statements for FY 2018-19 of WBPDC also reflects the said amount.

- 3.6.2. The Commission observed that WBPDC has incurred the Water Charges for Santaldih TPS based on the water tariff of DVC for Industrial water supply. Accordingly, the Commission admits an amount of Rs. 455.07 Lakh related to the water charges incurred.

Table 24: Water Charges Admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Santaldih	411.56	455.07	455.07
Total	411.56	455.07	455.07

3.7. Operation and Maintenance Expenses

- 3.7.1. The operation and maintenance (O&M) expense, viz. repairs and maintenance including cost of consumables, legal and professional charges, audit fees, administrative and general (A&G) expenses are categorized as controllable items in terms of the Tariff Regulations.
- 3.7.2. WBPDC has claimed total O&M Expense of Rs. 61417.08 Lakh for FY 2018-19 under table 26 in paragraph 18 of the written submission in Volume-1 of APR application. The amount includes Rs. 115.91 Lakh as O&M expense of 400 kV Sagardighi Stage I Transmission line and to be allowed separately. The amount of Rs. 61301.17 Lakh claimed by WBPDC in respect of its generating stations is observed to be tallying with the expenditures corresponding to the Schedule 11 of Accompanying Financial Statements of respective generating stations. The Commission observes that WBPDC has claimed an amount of Rs. 177.33 Lakh as 'License and Registration' fees under the head 'Rates and Taxes' in Form E(B) which is a part of A&G expenses. Similarly, WBPDC has also claimed Rs. 96.98 Lakh as 'Bank Charges' under 'Other Finance Charges'. The Bank Charges of Rs. 96.98 Lakh is included under 'Generation, Administration and Other Expenses' in Unit Wise Accounts (Schedule 11). The Commission observes that in terms of regulation 5.6.4.2 (iv) of the Tariff Regulation, financing charges relating to Capital Loan is allowed under 'Other Finance Charges'. Thus, the amount of Rs. 96.98 is also considered under A&G expenses. Further, as discussed in Table 18 above, the Commission considers Rs. 923.04 Lakh under O&M expense head. Considering the above, the total O&M claim comes to Rs. 62498.52 Lakhs.
- 3.7.3. The O&M Expenses is controllable cost in terms of Tariff Regulations. In terms of regulation 2.8.6.1 of the Tariff Regulations, the Commission is required to specify the norms in the Tariff Order for the 1st ensuing year of the control period. Accordingly, the Commission has specified the norms for O&M expenses for the years 2018 – 19 and 2019 – 20 vide Tariff order dated 14.07.2021 in Case No. TP –

85/ 19 – 20. Further, in terms of regulation 2.6.10 (ii) of the Tariff Regulations, the Commission may allow certain additional expenditure through the APR Order on any element of controllable item if the rate of inflation is found to be more than 15% with respect of the price of that item determined during tariff order. Since, the Commission has considered the inflation based on actual inflation of 2018 – 19, no such additional expenditure is allowable in terms of regulation 2.6.10 (ii) of the Tariff Regulations.

3.7.4. Considering the above, the admitted amount for each generating station is admitted based on the normative O&M expenses allowed in the Tariff Order vis-à-vis Actual Expenses claimed as shown in the table below:

Table 25: O&M Expenses Admitted for FY 2018-19 (Rs. Lakh)

Power Station	Normative O&M Expenses	Actual Claimed (as per Table 25A)	Admitted
Kolaghat	20311.20	16262.47	16262.47
Bakreswar	13618.50	16682.74	13618.50
Bandel I	2120.40	3497.79	2120.40
Bandel II	3420.65	6290.85	3420.65
Santaldih	5020.00	7009.81	5020.00
Sagardighi I	5130.00	7336.66	5130.00
Sagardighi II	6310.00	5418.20	5418.20
Total	55930.75	62498.52	50990.22

Table 25A: Redetermined O&M (Rs. Lakh)

Power Station	O&M Claimed	License and Registration Fees	Bank Charges recognized under A&G	O&M as per Table 18	Redetermined O&M
Kolaghat	15937.54	12.70	12.86	299.37	16262.47
Bakreswar	16500.88	73.44	20.11	88.31	16682.74
Bandel I	3495.11	0.33	1.40	0.95	3497.79
Bandel II	6262.07	0.60	2.26	25.92	6290.85
Santaldih	6523.63	26.40	11.64	448.14	7009.81
Sagardighi I	7203.85	36.04	41.97	54.80	7336.66
Sagardighi II	5378.09	27.82	6.74	5.55	5418.20
Total	61301.17	177.33	96.98	923.04	62498.52

3.8. Interest on Borrowed Capital

- 3.8.1. WBPDC submitted the computations in prescribed Form C of Annexure-I of the APR petition for the amounts of interest actually paid for Bakreswar, Bandel, Santaldih and Sagardighi-I and Sagardighi- II generating stations in 2018-19.
- 3.8.2. As per Note 37 to the Audited Financial Statements for FY 2018-19, a total amount of Rs. 101358.65 Lakh has been recognized in the Statement of Profit and Loss towards interest expenses on term loans



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and interest on working capital loans. It has been mentioned in the APR application that the interest charges on capital account, for Rs. 73040.60 Lakh, excludes the interest on working capital (Rs. 15377.72 Lakh) and the interest on temporary accommodation (Rs. 12940.31 Lakh). It is however observed from the Audited Financial Statements (Note 37) that Rs. 24798.47 Lakh has been actually recognised as interest on working capital. No interest capitalization has been proposed in 2018 – 19.

3.8.3. The Commission now, analyses the plant wise interest on capital loan to be admitted for 2018 – 19 based on the Form C submitted by WBPDCCL:

3.8.3.1 Kolaghat: It is observed that there is no outstanding balance of capital loan. Thus, no interest has been admitted for Kolaghat.

3.8.3.2 Bakreswar: It is observed that there is an outstanding balance of capital loan from PFC amounting to Rs. 112061.75 Lakh. WBPDCCL has made a repayment of Rs. 10187.43 Lakh during 2018 – 19 and incurred an interest of Rs. 11274.46 Lakh. Further, the interest amount of Rs 11274.46 Lakh does not include any amount pertaining to the construction of associated transmission system of Bakreswar Thermal Power Stations as shown in Appendix to Form E. Now, in line with the elucidation given in paragraph 3.2 of this order, the admitted interest comes to Rs. 10710.73 Lakh (11274.46×0.95).

3.8.3.3 Bandel Stage I: It is observed that there is no outstanding balance of capital loan. Thus, no interest has been admitted for Bandel Stage I.

3.8.3.4 Bandel Stage II: It is observed that there is an outstanding balance of capital loan from Govt Loan for EERM amounting to Rs. 36069.14 Lakh. WBPDCCL made an additional drawal of Rs. 268.31 Lakh during 2018 – 19. The interest incurred is Rs. 986.33 Lakh. Now, in line with the elucidation given in paragraph 3.2 of this order, the admitted interest comes to Rs. 937.01 Lakh (986.33×0.95).

3.8.3.5 Santaldih: It is observed that there are two outstanding balances of capital loan from (i) REC amounting to Rs. 46876.56 Lakh for Unit V and from (ii) PFC amounting to Rs. 46778.74 Lakh for Unit VI. WBPDCCL has made a repayment of Rs. 7500.25 Lakh to REC and Rs. 4158.11 Lakh to PFC during 2018 – 19. The interest claimed is Rs. 4760.21 Lakh for Unit V (REC Loan) and Rs. 5060.16 Lakh for Unit VI (PFC Loan). The Commission has approved the final project cost of Unit V vide its Order dated 11.12.2023 in Case No. OA – 415/ 22 – 23 as Rs. 139762.80 Lakh against the claim of Rs. 161284.54 Lakh. Therefore, the interest amount is to be proportionately reduced considering the capital cost allowed by the Commission. Thus, the interest for Unit V comes to Rs. 4125.01 Lakh ($4760.21 \times 139762.80 \div 161284.54$). Further, in line with the elucidation given in paragraph 3.2 of this order, the interest for Unit



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VI comes to Rs. 4807.15 Lakh (5060.16×0.95). Thus, the allowable interest for Santaldih comes to Rs. 8932.16 Lakh ($4125.01 + 4807.15$).

Further, as per direction of the Commission in APR Order for FY 2012-13, WBPDCCL has submitted the interest component of Rs 621.18 Lakh in Appendix to Form E of APR Petition for FY 2018-19 related to transmission systems for Units V and VI of Santaldih generating station. As the transmission system has not been handed over to WBSETCL and the system is not put to use, the said amount is neither to be recovered from WBSETCL by WBPDCCL nor to be admitted as interest cost for FY 2018-19. Accordingly, the same has been disallowed from the interest on loan of STPS. Therefore, the admitted interest is Rs. 8310.98 Lakh ($8932.16 - 621.18$)

- 3.8.3.6 Sagardighi Stage I: It is observed that there is an outstanding balance of capital loan from PFC amounting to Rs. 63106.29 Lakh. WBPDCCL has made a repayment of Rs. 11473.87 Lakh during 2018 – 19 and incurred an interest of Rs. 6006.89 Lakh. Now, in line with the elucidation given in paragraph 3.2 of this order, the admitted interest comes to Rs. 5706.55 Lakh (5706.55×0.95).

Regarding Sagardighi transmission system, WBPDCCL has stated in their supplementary petition for APR for FY 2012-13 that the Sagardighi - Gokarna 220 kV Double Circuit transmission line asset, a part of the transmission systems, has already been handed over to WBSETCL on 02.06.2009. From Appendix to Form E of APR Petition for FY 2018-19 related to transmission systems for Sagardighi, it is observed that the interest incurred for the Transmission system is Rs. 58.80 Lakh. Thus, the same has been reduced from the interest for the generating station and allocated to transmission system for recovery from WBSETCL. Thus, the interest for generating station comes to Rs. 5647.75 Lakh ($5706.55 - 58.80$).

For the other two parts i.e., Farakka – Subhasgram 400 kV Single Circuit line LILO at Sagardighi and Sagardighi - Parulia 400 kV Double Circuit line, WBPDCCL has entered into a renewed agreement with PGCIL on 28.06.2017 for operation and maintenance of Farakka-Subhasgram 400 kV Single Circuit line LILO at Sagardighi and Sagardighi - Parulia 400 kV Double Circuit line and associated bays at Parulia (Durgapur) and Sagardighi TPP.

- 3.8.3.7 Sagardighi Stage II: It is observed that there is an outstanding balance of capital loan from PFC amounting to Rs. 400527.68 Lakh. WBPDCCL has made a repayment of Rs. 28107.21 Lakh during 2018 – 19 and incurred an interest of Rs. 44952.58 Lakh. Now, in line with the elucidation given in paragraph 3.2 of this order, the admitted interest comes to Rs. 42704.95 Lakh (44952.58×0.95).



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3.8.4. In view of above, the admitted amount for interest on borrowed capital comes to Rs. 68311.42 Lakh for FY 2018-19 is summarised in the table below:

Table 26: Interest on Borrowed Capital Admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Interest Claimed	Admissible Interest	Interest Withheld #	Interest Disallowed ##	Interest Admitted	Interest for Generating Station	Allocated Interest for Transmission Line
Kolaghat	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Bakreswar	10710.74	11274.46	11274.46	563.73		10710.73	10710.73	0.00
Bandel I	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Bandel II	1042.52	986.33	986.33	49.32		937.01	937.01	0.00
Santalidih	8394.70	4760.21	4125.01	0.00	621.18	8310.98	8310.98	0.00
		5060.16	5060.16	253.01				
Sagardighi I	5706.55	6006.89	6006.89	300.34		5706.55	5647.75	58.80
Sagardighi II	42743.77	44952.58	44952.58	2247.63		42704.95	42704.95	0.00
Total	68598.28	73040.63	72405.43	3414.03	621.18	68370.22	68311.42	58.80

As mentioned in paragraph 3.2 of this Order

As mentioned in paragraph 3.8.3.5 of this Order

3.9. Interest on Normative Loan

WBPDCCL has claimed interest on normative loan for the year 2018-19 only for Bakreswar and Sagardighi I generating stations to an amount of Rs. 208.98 Lakh and Rs. 79.77 Lakh respectively. WBPDCCL has also stated that the Commission has not admitted the full amount of equity contribution made by the Government but a part of the same has been considered as normative debt vide Tariff Orders for FY 2008-09 and FY 2009-10 dated 30.12.2011. However, in the APR for FY 2010 -2011 and onwards, the Commission had also not considered the interest on normative debt though the same was admitted in tariff order. The Commission observes that, as per the Tariff Regulations, the equity contribution is considered only when such equity is utilized in actual addition to the original cost of fixed asset. It is apparently found that the actual addition of equity corresponding to original cost of fixed asset is less than the actual equity contributed by the State Government. Such difference of equity contributed and actual addition of equity to original cost of fixed asset cannot be considered as normative loan. Further, WBPDCCL has submitted application for approval of the final project cost of the above-mentioned generating stations. The Commission, at this juncture, is in process of scrutinizing the submitted applications. Thus, WBPDCCL is directed to approach the Commission for consideration of the said equity as normative loan, if any, after approval of the final project cost.

Also, WBPDCCL in Form 1.20 (a) of its APR Petition has claimed that the additional capital expenditure for the year has been made through internal accruals. WBPDCCL has considered normative equity (30%) for addition to equity base, however, no normative loan has been claimed under Form 1.20(b). Thus, no normative loan is not admitted for any additional capital expenditure allowed by the Commission.

**3.10. Interest on Temporary Accommodation**

- 3.10.1. WBPDCCL claimed interest on temporary accommodation for an amount of Rs. 12940.31 Lakh during FY 2018-19 on the ground of liability of carrying the burden of additional fuel cost amounting to Rs. 95288.57 lakh as determined in Fuel Cost Adjustment (FPPCA) order for the Year 2012-13 dated 06.06.2014. WBPDCCL submitted that the requirement of fund has increased due to non-receipt of Orders of the Commission for APR & FPPCA for FY 2014-15 to FY 2017-18 to a tune of Rs. 332661 Lakh.
- 3.10.2. The Loan balance as per Audited Financial Statements as on 31.03.2019 vis-a-vis their claim in Form C is as below:

Table 27: Loan Outstanding for FY 2018-19 (Rs. Lakh)

Particulars	As per Audited Financial Statement	As per Form C
Capital Borrowings		
Long Term Borrowings	593673.81	644261.61
Current Maturities of Long-Term Loans	90320.51	
Total	683994.32	644261.61
Short Term Borrowings		
Working Capital Loan	371907.93	247548.72
Short Term Loan		180188.84
Total	371907.93	427737.57

- 3.10.3. The amount provided in Form C varies with that of Audited Financial Statements. In absence of conclusive clarity with respect to the amount of loan drawn for the purpose of Temporary accommodation, the balance loan remaining after adjusting the Working Capital Loan from the total of Short-Term Borrowings as depicted in Audited Financial Statements i.e., Rs. 124359.21 Lakh [Rs. (371907.93 – 247548.72) Lakh] is considered as their loan availed for temporary accommodation.
- 3.10.4. It is observed that out of the total realizable amount of Rs 95288.57 Lakh as per order dated 11.12.2014, 30 instalments @ Rs 2507.59 Lakh p.m. amounting to Rs. 75277.70 Lakh has already been realized upto March, 2018. Accordingly, balance amount of Rs. 20060.87 Lakh (= 95288.57 – 75277.70) is further realizable. Considering realization of monthly instalments during April, 2018 to November, 2018 on the balance realizable amount of Rs. 20060.87 Lakh, the average of the month wise balances of unrealized arrear is as shown below. In addition, since the outstanding from the APR and FPPCA is adjusted from the grant already provided by the Government of West Bengal, the same is not considered as an outstanding payment.

Table 28: Calculation of Outstanding Payments of WBPDCCL for FY 2018-19 (Rs. Lakh)

Month	Instalment Recovered	Balance
Mar-18		20060.87
Apr-18	2507.59	17553.28
May-18	2507.59	15045.69



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Month	Instalment Recovered	Balance
Jun-18	2507.59	12537.10
Jul-18	2507.59	10030.51
Aug-18	2507.59	7522.92
Sep-18	2507.59	5015.33
Oct-18	2507.59	2507.59
Nov-18	2507.59	0.00
Dec-18	0.00	0.00
Jan-19	0.00	0.00
Feb-19	0.00	0.00
Mar-19	0.00	0.00
Average Outstanding for FY 2018-19		6686.96

- 3.10.5. Considering the outstanding balance of loan as per the table above and that the actual rate of interest arrived at 7.78% based on the given information of short-term loans at Form C of the Petitioner, the Commission admits Rs. 520.26 Lakh ($6686.96 \times 7.78\%$) as interest on temporary accommodation and allocated to the generating stations based on their claims as summarized below:

Table 29: Interest on Temporary Accommodation admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Kolaghat	0.00	2484.04	99.87
Bakreswar	0.00	4140.91	166.48
Bandel I	0.00	267.89	10.77
Bandel II	0.00	479.96	19.30
Santaldih	0.00	2057.09	82.70
Sagardighi I	0.00	1981.05	79.65
Sagardighi II	0.00	1529.37	61.49
Total	0.00	12940.31	520.26

3.11. Other Finance Charges

- 3.11.1. In their APR application for FY 2018-19 for all the generating stations, WBPDCCL has claimed a total amount of Rs. 4919.36 Lakh on the head of other finance charges. As per the audited financial statements of WBPDCCL for the year 2018-19, an amount of Rs. 4822.38 Lakh has been recognised under 'Loan processing & Other Financial Charges' at note 37 of Audited Financial Statements for 2018-19. Further, WBPDCCL has submitted that the finance charges include bank charge, loan processing charges, LC commission charges, etc.
- 3.11.2. It is observed that the claim under Other Finance Charges includes a payment made to Dongfang Electric Corporation Limited for Rs. 3377.77 Lakh as an outcome of a settlement agreement between the parties. WBPDCCL has submitted application for approval of the final project cost of the Sagardighi Stage I. The Commission, at this juncture, is in process of scrutinizing the submitted application. Thus,



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the Commission provisionally disallows the expense claimed by WBPDCCL and shall scrutinize the same during the approval of final Capital Cost of Sagardighi Stage I.

3.11.3. In accordance with 5.6.4.2 of the Tariff Regulations, bank charges related to capital borrowing are only admissible under the head 'Other Financing Charges'. The Commission has already considered an amount of Rs. 96.98 Lakh as 'Bank Charges' recognised under Administrative Charges under O&M expenses. Accordingly, the Commission decides to admit the total amount of Rs. 1444.61 Lakh (4822.38 – 3377.77) towards other finance charges in line with the Audited Financial Statements for FY 2018-19.

3.11.4. The admitted amount of other finance charges is as per the table below:

Table 30: Other Finance Charges admitted for FY 2018-19 (Rs. Lakh)

Generating Station	As per Tariff order	Claimed	Amount as per Audited Accounts	Disallowed	Admitted
Kolaghat	295.15	290.17	284.45		284.46
Bakreswar	487.05	482.38	472.87		472.87
Bandel-I	31.75	31.22	30.60		30.60
Bandel-II	56.88	55.93	54.83		54.83
Santaldih	245.43	241.29	236.53		236.53
Sagardighi-I	172.52	3640.91	3569.13	3377.77	191.36
Sagardighi-II	241.90	177.46	173.96		173.96
Overall	1530.68	4919.36	4822.38		1444.61

3.12. Depreciation

3.12.1. The depreciation for the different generating stations as claimed by WBPDCCL is as under:

Table 31: Depreciation claimed by WBPDCCL for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Amount Claimed
Kolaghat	1176.87	1559.09
Bakreswar	16861.25	17803.98
Bandel I	166.72	159.46
Bandel II	2429.37	2559.43
Santaldih	9363.11	11393.75
Sagardighi I	10526.92	11222.68
Sagardighi II	20686.78	21791.88
Total	61211.02	66490.26

3.12.2. WBPDCCL has claimed the depreciation for its generating station based on the Gross Fixed Asset presented at Note 6 and 7 of the Audited Financial Statements. The claim of WBPDCCL also includes an amount of Rs. 234.18 Lakh as depreciation pertaining to prior period (Note 6a of the Audited Financial Statements). Besides, the claim also includes depreciation corresponding to amortization of Government grants.



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- 3.12.3. The Commission decides to refer to the amounts of depreciation as claimed and reflected in the unit wise books of accounts of WBPDCCL for FY 2018-19. Further, in view of the already approved final project cost of Unit V of Santaldih vide Order dated 11.12.2023 in Case No. OA – 415/ 22 – 23, the Commission decides to adjust the opening GFA presented in the books of accounts with reference to the amount approved vis-à-vis the claim for Unit V of STPS. Thus, the Opening GFA for STPS comes to Rs. 269615.02 Lakh ($291136.76 - 161284.54 + 139762.80$). The admissible depreciation has been computed based on the average GFA for the year.
- 3.12.4. The Commission further observes that the prior period depreciation claimed by WBPDCCL is for earlier years as provided in Note 6a of the Audited Financial Statements. WBPDCCL has not specified the year for which the prior period depreciation pertains to. In terms of Tariff Regulations, the prior period depreciation is only admissible for the base year of the control period. Thus, in absence of requisite details, the Commission decides to disallow the said expense for 2018 – 19. The Commission also observes that a sum of Rs. 581.24 Lakh stands recognized as 'Deferred Income – Grant to the extent of Depreciation' at Note 34 of the Audited Financial Statements. Accordingly, the Commission decides to reduce the depreciation as arrived to the extent by the aforesaid amortized amount on proportionate basis corresponding to plant wise average GFA for the year. Further, in line with the elucidation given in paragraph 3.2 of this order, the Commission decides to withhold the depreciation for Bakreswar Stage II, Bandel Stage II, Santaldih Unit VI, Sagardighi Stage I and Sagardighi Stage II. WBPDCCL is thereby directed to approach the Commission for releasing the depreciation after approval of the final project cost.
- 3.12.5. The depreciation claimed for Santaldih generating station includes an amount of Rs. 966.60 lakh pertaining to transmission system related to Santaldih generating station (Units V & VI) as per Appendix to Form E in Annexure-1 of the petition. As the transmission system has not been handed over to WBSETCL and the system is not put to use, the said amount is neither to be recovered from WBSETCL by WBPDCCL nor to be admitted as depreciation for FY 2018-19. Accordingly, the same has been disallowed.



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3.12.6. The station wise depreciation as allowed by the Commission are as follows

Table 32: Depreciation for FY 2018-19 (Rs. Lakh)

Particulars	Claimed					Admitted				
	Opening GFA as per Accounts	Asset Addition	Sale/Adjustment	Closing GFA as per Accounts	Depreciation	Opening GFA after adjustment #	Asset Addition	Sale/Adjustment	Closing GFA after adjustment	Admissible Depreciation
	A	B	C	D = A + B - C	E	F	G	H	I = F + G - H	J = E x AVG (F,I) / AVG (A,D)
Kolaghat	196640.37	5357.87	0.00	201998.24	1559.09	196640.37	3894.33	0.00	200534.70	1553.37
Bakreswar	533747.98	20817.06	0.00	554565.04	17803.98	533747.98	764.00	0.00	534511.98	17475.93
Bandel I	23878.00	50.38	1434.35	22494.03	159.46	23878.00	49.43	1434.35	22493.08	159.46
Bandel II	70681.85	1148.16	0.00	71830.01	2559.43	70681.85	349.09	0.00	71030.94	2545.08
Santaldih	291136.76	1410.24	0.00	292547.00	11393.75	269615.02	379.53	0.00	269994.55	10533.40
Sagardighi I	301644.99	14866.12	0.00	316511.11	11222.68	301644.99	365.51	0.00	302010.50	10959.42
Sagardighi II	607669.83	2367.43	258.90	609778.36	21791.88	607669.83	282.17	258.90	607693.10	21754.55
Total	2025399.78	46017.26	1693.25	2069723.79	66490.27	2003878.04	6084.06	1693.25	2008268.85	64981.21

Capital Cost of Unit V of STPS as approved by the Commission has been adjusted

Particulars	Admitted					
	Admissible Depreciation	Adjustment of Prior Period Depreciation	Adjustment due to Amortization of Grant	Withheld @5%	Disallowed (Tr system of STPS)	Depreciation for 2018 - 19
	J	K	L	M	N	O = J - K - L - M - N
Kolaghat	1553.37	5.49	56.58	0.00	0.00	1491.30
Bakreswar	17475.93	62.71	154.47	345.17	0.00	16913.58
Bandel I	159.46	0.56	6.58	0.00	0.00	152.32
Bandel II	2545.05	9.01	20.23	125.79	0.00	2390.05
Santaldih	10533.40	40.13	82.84	250.69	966.60	9193.14
Sagardighi I	10959.42	39.53	87.74	541.61	0.00	10290.54
Sagardighi II	21754.55	76.75	172.80	1075.25	0.00	20429.75
Total	64981.21	234.18	581.24	2338.51	966.60	60860.68

3.12.7. The amount of depreciation so claimed for the Bakreswar generating station includes an amount of Rs. 441.39 Lakh pertaining to the transmission system associated to that station. Further, the depreciation amount claimed for Sagardighi I generating station includes an amount of Rs. 109.86 Lakh pertaining to transmission system related to Sagardighi generating station. As those systems are being operated by WBSETCL, the amount of depreciation was ordered to be recovered from that company.

3.12.8. Accordingly, the allocation of depreciation to the generating station and transmission line is given below:

Table 33: Depreciation for FY 2018-19 (Rs. Lakh)



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Particulars	Admitted		
	Admitted Depreciation	Allocated to Transmission Line	For Generating Station
Kolaghat	1491.30	0.00	1491.30
Bakreswar	16913.58	441.39	16472.19
Bandel I	152.32	0.00	152.32
Bandel II	2390.05	0.00	2390.05
Santalidih	9193.14	0.00	9193.14
Sagardighi I	10290.54	109.86	10180.68
Sagardighi II	20429.75	0.00	20429.75
Total	60860.68	551.25	60309.43

3.13 Advance Against Depreciation/ Interest Credit

3.13.1 WBPDCCL has claimed Advance Against Depreciation amounting to Rs. 264.61 Lakh, Rs. 251.20 Lakh and Rs. 6315.13 Lakh for Santaldih, Sagardighi Stage I and Sagardighi Stage II respectively for the year 2018 – 19.

3.13.2 The Commission observes that WBPDCCL has submitted application for approval of the final project cost for the aforesaid generating stations. The Commission, at this juncture, is in process of scrutinizing the submitted applications. Therefore, the Commission does not admit any advance against depreciation for the aforesaid generating stations at this stage. WBPDCCL may approach the Commission for approval AAD, if any, after finalization of the project cost.

3.13.3 Further, the Commission observes that the cumulative Depreciation and AAD admitted from 2007 – 08 to 2018 – 19 comes to Rs. 497178.55 Lakh against the Loan Repayment made by WBPDCCL during the period is Rs. 499873.29 Lakh as given in the statement at Annexure 3A. Since, the amount of loan repayment exceeds the amount of cumulative depreciation, as such, no interest credit is admissible to WBPDCCL.

3.14 Reserve for Unforeseen Exigencies:

WBPDCCL did not claim any amount in respect of Reserve for Unforeseen Exigencies. Hence, no amount is admitted by the Commission.

Further, in terms of regulation 5.11 read with 5.24 of the Tariff Regulation, the generating company is required to maintain the reserve/ fund and the interest accrued from the investment shall be reinvested under the same reserve/ fund. The Commission observes that WBPDCCL has adhered to the provisions stated in the regulations and maintained the said reserve.

**3.15 O&M Charges paid to PGCIL for Sagardighi Transmission System:**

WBPDC has entered into agreement with PGCIL on 28.06.2017 for operation and maintenance of Farakka - Subhasgram 400 kV Single Circuit line LILO at Sagardighi and Sagardighi - Parulia 400 kV Double Circuit line and associated bays at Parulia (Durgapur) and Sagardighi TPP. WBPDC has claimed a sum of Rs. 115.91 Lakh in their APR petition for FY 2018-19. The Commission admits the amount of Rs. 115.91 Lakh in FY 2018-19 for Sagardighi transmission system, being within the norms of CERC.

3.16 Taxes payable under Income Tax Act:

- 3.16.1 WBPDC has claimed for Rs. 829.40 Lakh in their APR petition. WBPDC has also submitted documentary evidence of taxes paid for FY 2018-19. The Commission observes that the tax applicable for FY 2018-19 is Rs. 829.40 Lakh and accordingly admits the same.

Table 34: Income Tax admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Kolaghat	0.00	0.00	0.00
Bakreswar	0.00	483.65	483.65
Bandel I	0.00	0.00	0.00
Bandel II	0.00	0.00	0.00
Santaldih	0.00	117.77	117.77
Sagardighi I	0.00	0.00	0.00
Sagardighi II	0.00	227.98	227.98
Total	0.00	829.40	829.40

3.17 Insurance Premium

- 3.17.1 WBPDC has claimed an amount of Rs. 1658.99 Lakh for Insurance premium incurred during 2018 – 19 which corresponds to the amount appearing at note 38 to the Audited Financial Statements. The Commission accordingly admits the same.

Table 35: Insurance Premium admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Kolaghat	310.04	310.11	310.11
Bakreswar	449.24	667.56	667.56
Bandel I	9.40	25.32	25.32
Bandel II	16.85	45.37	45.37
Santaldih	122.96	202.77	202.77
Sagardighi I	169.75	230.19	230.19
Sagardighi II	238.02	177.68	177.68
Total	1316.26	1658.99	1658.99



3.18 Rates and Taxes

- 3.18.1 In terms of Tariff Regulations, rates and taxes are recognized as separate items and categorized the same as uncontrollable. WBPDCCL has claimed an amount of Rs. 61.59 Lakh under the head Rates and Taxes. WBPDCCL has also claimed Rs. 24.25 Lakh as Filing Fees and Rs. 177.33 Lakh as 'License and Registration Fees'. The amount of Rs. 61.59 Lakh, Rs. 24.25 Lakh and Rs. 177.33 Lakh as "Rates and Taxes", 'Filing fees' and License and Registration Fees' respectively has been depicted in Note 38 on 'other expenses' of the Audited Financial Statements. The Commission has already considered 'License and Registration Fees' as part of A&G expenses under Operation and Maintenance Expenses. Accordingly, The Commission admits Rs. 85.84 Lakh as Rates and Taxes" and 'Filing fees' and allocated the same to different generating stations as per unit wise accounts as under:

Table 36: Rent, Rates and Taxes admitted for FY 2018-19 (Rs. Lakh)

Sl. No.	Generating Station	As per Tariff order	Claimed		Admitted
			Rates and Taxes	Filing Fees	
1	Kolaghat	25.91	6.43	5.55	11.98
2	Bakreswar	43.35	10.78	7.39	18.17
3	Bandel-I	37.57	12.60	0.48	13.08
4	Bandel-II	67.32	22.57	0.85	23.42
5	Santaldih	43.16	3.18	3.67	6.85
6	Sagardighi-I	25.06	3.40	3.56	6.96
7	Sagardighi-II	16.63	2.63	2.75	5.38
	Overall	259.00	61.59	24.25	85.84

3.19 Eastern Regional Power Committee (ERPC) Charges

- 3.19.1 WBPDCCL has claimed a sum of Rs 16 Lakh towards ERPC charges which corresponds to the amount appearing at note 38 of Audited Financial Statements. The Commission accordingly admits the same.

Table 37: ERPC Charges admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Kolaghat	3.09	3.07	3.07
Bakreswar	5.14	5.12	5.12
Bandel I	0.33	0.33	0.33
Bandel II	0.59	0.59	0.59
Santaldih	2.54	2.54	2.54
Sagardighi I	1.80	2.45	2.45
Sagardighi II	2.51	1.89	1.89
Total	16.00	16.00	16.00

3.20 Return on Equity

- 3.20.1 The return on Equity for different operating generating stations of WBPDCCL, as were considered in the



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tariff order for FY 2018-19 and as now being claimed by them are as under:

Table 38: RoE claimed for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed
Kolaghat	13817.00	14457.79
Bakreswar	19583.03	22290.26
Bandel I	251.00	280.09
Bandel II	2923.15	3144.95
Santaldih	9415.33	11533.24
Sagardighi I	11851.25	13691.15
Sagardighi II	26643.70	28312.30
Total	84484.46	93709.77

3.20.2 The Commission in the instant case decides to proceed with the ROE determination for FY 2018-19 after considering the figures approved in Order Case No. OA-430/22-23 dated 05.09.2023 and Order dated 11.12.2023 for Capital Cost of Santaldih Unit V. The Return on Equity for each generating station is calculated considering the admissible opening equity base for 2018 – 19 same as the closing equity base allowed in APR Order for 2017 – 18 and 30% of the asset addition admitted for 2018 – 19. The detailed computation is shown below:

Table 39: RoE calculated for FY 2018-19 (Rs. Lakh)

Sl No.	Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
1	Actual Equity Base Opening (Govt. Sanction)	87329.40	139910.14	5665.00	16957.00	72900.00	82500.00	180885.00
2	Actual Equity from Free Reserve Opening	5142.83	1869.92	897.92		3137.30	3600.35	120.42
3	Total Actual Opening Equity (1+2)	92472.23	141780.06	6562.92	16957.00	76037.30	86100.35	181005.42
4	Actual Addition in Equity Base (Govt. Sanction)	0	0.00	0.00	0.00	0.00	0.00	0.00
5	Available Free reserve at the end of the year (less equity in sl 2)	113671.89						
6	Deletion in Equity Base	0	0.00	0.00	0.00	0.00	0.00	0.00
7	Admissible Opening Equity Base	90056.35	138840.72	6421.20	16957.00	72728.69	85664.59	180885.00
8	Admissible Opening Free Reserve as Equity	2415.88	454.82	141.72	0.00	1465.22	435.76	120.42
9	Total Admissible Opening Equity (7+8)	92472.23	139295.54	6562.92	16957.00	74193.91	86100.35	181005.42
10	Net Addition in Fixed Asset admitted (excluding grant)	3894.33	764.00	49.43	349.09	379.53	365.51	282.17
11	Normative Equity Addition 30% of 10	1168.30	229.20	14.83	104.73	113.86	109.65	84.65



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SI No.	Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
12	Addition of equity (Govt Sanction)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Addition in Equity Base (Free Reserve upto sl no 5)	1168.30	229.20	14.83	104.73	113.86	109.65	84.65
14	Admissible Equity Base Closing (9+12+13)	93640.53	139524.74	6577.75	17061.73	74307.77	86210.00	181090.07
15	Avg. Equity Base	93056.38	139410.14	6570.34	17009.37	74250.84	86155.18	181047.75
16	RoE at 15.5%	14423.74	21608.57	1018.40	2636.45	11508.88	13354.05	28062.40
17	Admissible Equity Closing	90056.35	138840.72	6421.20	16957.00	72728.69	85664.59	180885.00
18	Admissible Free reserve Closing	3584.18	684.02	156.55	104.73	1579.08	545.41	205.07

3.20.3 As enumerated in paragraph 3.2 above, 5% of Return on Equity in respect of Bakreswar Stage II, Bandel Stage II, Santaldih Unit VI, Sagardighi Stage I and Sagardighi Stage II has been withheld. Further, ROE for the transmission system for Bakreswar and Sagardighi Stage I being operated by WBSETCL is to be recovered from WBSETCL itself. The ROE claimed for Santaldih generating station includes an amount of Rs. 729.53 Lakh pertaining to transmission system related to Santaldih generating station (Units V & VI) as per Appendix to Form E in Annexure-1 of the petition. As the transmission system has not been handed over to WBSETCL and the system is not put to use, the said amount is neither to be recovered from WBSETCL by WBPDCCL nor to be admitted as ROE for FY 2018-19. Accordingly, the same has been disallowed.

3.20.4 Accordingly, the admitted ROE for the generating stations of WBPDCCL are as below:

Table 40: RoE admitted for FY 2018-19 (Rs. Lakh)

Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Admissible ROE	14423.74	21608.57	1018.40	2636.45	11508.88	13354.05	28062.40
Withheld ROE @ 5%	0.00	432.17	0.00	131.82	277.15	667.70	1403.12
Disallowed ROE (Tr system)	0.00	0.00	0.00	0.00	729.53	0.00	0.00
Admitted ROE	14423.74	21176.40	1018.40	2504.63	10502.20	12686.35	26659.28
ROE Allocated to Transmission Line	0.00	928.65	0.00	0.00	0.00	134.03	0.00
Admitted ROE for Generating Station	14423.74	20247.75	1018.40	2504.63	10502.20	12552.32	26659.28

3.21 Interest on Working Capital

3.21.1 On the basis of Regulation 5.6.5.1 and 5.6.5.2 of the Tariff Regulations, Commission allowed interest on working capital for each generating stations in its tariff order for FY 2018-19. WBPDCCL had taken working capital loans from the nationalized banks on payment of interest. It is observed that the opening balances of Working Capital Loans and Loans stated to have been availed of for Temporary



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accommodation as submitted in Form C are not tallying with the closing balances submitted by WBPDCCL in their Petition of 2018-19 (Form C). Due to such data inconsistency, the figures of Form 1.17 (b) have been considered as actual interest paid. The Commission vide Paragraph 7 of its order dated April 6, 2022 in Case No SM-30/21-22 has ordered that *"The interest on working capital which has already been determined for the period effective on and from 01.04.2016 in the tariff orders issued by the Commission considering the SBI PLR/MCLR without any float will be trued up based on actual working capital interest paid, subject to the ceiling of the interest on working capital assessed on normative basis at the rate of one-year MCLR of SBI, as on 1st April of the concerned year, plus 350 basis points."* The one-year Marginal Cost of Lending Rates (MCLR of the State Bank of India as on 1st April, 2018 was 8.15%. The Commission thus has considered normative Interest on working capital at the rate of 11.65 % (8.15 % + 3.50 %) for interest calculation as per regulation 5.6.5.2 of Tariff Regulations. The following table shows the calculation in this regard:

Table 41: IoWC admitted for FY 2018-19 (Rs. Lakh)

Sl. No.	Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi Stg I	Sagardighi Stg II
A	Gross Sales	187696.23	253639.51	21563.66	46562.64	139482.95	126513.57	217339.97
B1	Less: Depreciation including Advance Depreciation	1491.30	16913.58	152.32	2390.05	9193.14	10290.54	20429.75
B2	Less: Deferred Revenue Expenditure	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3	Less: Return on Equity	14423.74	21176.40	1018.40	2504.63	10502.20	12686.35	26659.28
B4	Less: Reserve for unforeseen exigencies	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B	Total Deductions (sum B1:B4)	15915.04	38089.98	1170.72	4894.68	19695.34	22976.89	47089.03
C	Allowable Gross Sales for Working Capital (A-B)	171781.19	215549.53	20453.91	41794.85	119787.61	103840.07	170256.49
D	Allowable Working Capital @ 10% on C	17178.12	21554.95	2045.39	4179.49	11978.76	10384.01	17025.65
E	Interest Rate at SBI MCLR+ 350 basis points	11.65%	11.65%	11.65%	11.65%	11.65%	11.65%	11.65%
F	Interest on Working Capital (E on D)	2001.25	2511.15	238.29	486.91	1395.53	1209.04	1983.42
G	Actual interest paid	2951.93	4920.88	318.36	570.37	2444.55	2354.20	1817.45
	Interest on working capital allowable (Lower of F & G)	2001.25	2511.15	238.29	486.91	1395.53	1209.74	1817.45



3.21.2 Thus, the total amount admitted under the Interest on Working Capital is Rs 9660.32 Lakh.

3.22 Income from Other Sources / Non-Tariff Income

3.22.1 WBPDCCL has claimed an amount of Rs. 10048.23 Lakh as Non-Tariff Income for FY 2018 – 19. However, the Commission has referred to the relevant amount recognized in Note 34 of the Audited Financial Statement for 2018 – 19. From the said note, the Commission observed that sum of Rs. 7261.91 Lakh, Rs. 4.82 Lakh and Rs. 54.16 Lakh pertains to interest income on 'Term Deposits, Security Deposits, from employees' respectively. Besides, a sum of Rs. 14743.79 Lakh pertains to Miscellaneous receipts wherefrom after deduction of Liquidated Damage of Rs. 11922.77 Lakh, the net Miscellaneous receipts arrive at Rs. 2821.02 Lakh. Thus, the total amount admissible amount on account of Non-Tariff Income is Rs. 10141.91 Lakh (7261.91 + 4.82 + 54.16 + 2821.02). The Commission accordingly considers the same and allocates the Non-Tariff Income in proportion to the claim of respective generating stations of WBPDCCL.

Table 42: NTI admitted for FY 2018-19 (Rs. Lakh)

Power Station	Tariff Order	Claimed	Admitted
Kolaghat	2309.46	2582.53	2606.61
Bakreswar	1832.13	3071.71	3100.35
Bandel I	532.96	305.33	308.18
Bandel II	1129.69	547.06	552.16
Santaldih	914.37	1326.89	1339.26
Sagardighi I	1273.99	1390.48	1403.44
Sagardighi II	1698.33	824.23	831.91
Total	9690.93	10048.23	10141.91

3.23 Cost of associated transmission system recoverable from West Bengal State Electricity Transmission Company Limited (WBSETCL)

3.23.1 The transmission systems constructed by WBPDCCL for Bakreswar generating station is an integral part of the transmission system being operated by WBSETCL. The 220 kV transmission systems constructed by WBPDCCL for Sagardighi generating Station is an integral part of the transmission system being operated by WBSETCL. For both the above associated transmission systems of Bakreswar and Sagardighi generating station operated by WBSETCL, WBPDCCL has submitted the details of ROE, interest on loan and depreciation in appendix to Form E of the submitted petition of the respective generating stations. For Santaldih generating station no cost is, however, recoverable from WBSETCL for the reasons stated in earlier paragraphs. Thus, charges recoverable for the associated transmission assets of Bakreswar and Sagardighi generating stations are found in the table below:

Table 43: Cost Recoverable from WBSETCL for FY 2018-19 (Rs. Lakh)

Particulars	Bakreswar	Sagardighi I
Interest on Loan	0.00	58.80
Depreciation	441.09	109.86
RoE	928.65	134.03
Total	1369.74	302.69

3.23.2 In the tariff order for FY 2018-19 WBPDCCL was allowed to recover the cost of Bakreswar transmission system from WBSETCL. Any difference in realization of cost of Bakreswar transmission system and the amount admitted in this APR order for 2018-19 shall be recoverable from WBSETCL by WBPDCCL. The amount of Rs. 1369.74 Lakh and Rs. 302.69 Lakh are now admitted for recovery from WBSETCL being the charges for Bakreswar and Sagardighi transmission systems.

3.23.3 The recoverable amount has been considered as per WBPDCCL Accounts at present. Commission hereby directs WBPDCCL to take up the matter with WBSETCL and make proper reconciled statement by both parties and submit a report in the next APR application with due adjustment.

3.24 Fixed Charges

3.24.1 Based on the foregoing analyses, the amount of fixed charges allowable under different heads in respect of the concerned generating stations have been shown in Annexure-3B. As shown in the referred annexure, the total amount of fixed charges for the concerned generating stations are given in the table below:

Table 44: Fixed Charges Admitted for FY 2018-19 (Rs. Lakh)

Figures in Rs. Lakh

Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
Fixed Charges	48186.70	78278.26	5777.13	13808.75	46245.76	41595.87	102753.36

3.24.2 The above fixed charge is, however, recoverable at the level of Plant Availability Factor (PAF) achieved by the respective generating stations.

3.25 Treatment of Inoperative Asset

3.25.1 WBPDCCL has submitted that consequent upon the order of the National Green Tribunal, Unit I and Unit III of Kolaghat TPS remained inoperative during 2018 – 19. Similarly, Unit IV of Sagardighi Stage II TPS was under shutdown due to Turbine Vibration for 2150.90 Hours during 2018 – 19. This has resulted in reduced Plant Availability Factor for Kolaghat TPS and Sagardighi Stage II TPS. In view of the above, WBPDCCL prayed to treat the assets as inoperative and allow the capacity charge following regulation 5.25 of the Tariff Regulations.



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3.25.2 The Commission observes that in terms of regulation 5.25.1, any asset of a generating company remains inoperative for more than three months due to break down or force majeure events qualifies as inoperative asset. From the submission, the Commission observes that the order of National Green Tribunal is related to failure of Kolaghat TPS to comply with the pollution norms. Moreover, WBPDCCL has not substantiated that such failure of controlling the pollution could not be prevented with exercise of reasonable care and diligence. Thus, the Commission is of the considered opinion that the same does not fall as 'Force Majeure Event' as defined under the Tariff Regulations. Accordingly, the Commission observes that Unit I and Unit III of Kolaghat TPS does not qualify under provisions of inoperative asset in terms of regulation 5.25.1 of the Tariff Regulations. Further, the Commission also observes that the shut-down of Unit IV of Sagardighi Stage II TPS for 2150.90 Hours does not qualify under the provisions of inoperative asset in terms of regulation 5.25.1 of the Tariff Regulations.

3.26 Capacity Charge

3.26.1 The re-determined capacity charges of each generating station are now required to be adjusted as per PAF achieved during FY 2018-19 following the provisions of the Tariff Regulations. The computations in this regard are given in the table below:

Table 45: Capacity Charge Admitted for FY 2018-19 (Rs. Lakh)

Sl No.	Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
1	Target PAF (%)	75.00	85.00	70.00	77.00	85.00	85.00	85.00
2	PAF Achieved (%)	42.30	82.53	37.08	54.01	84.48	53.35	41.18
3	Fixed Charges (Rs. Lakh)	48186.70	78278.26	5777.13	13808.75	46245.76	41595.87	102753.36
4	Coal & Ash Handling Charges (Rs. Lakh)	1880.51	1795.02	44.82	122.65	1646.54	234.19	181.34
5	Water Charges (Rs. Lakh)	0.00	0.00	0.00	0.00	455.07	0.00	0.00
6	Capacity Charge to be considered (Rs. Lakh) (3-4-5)	46306.19	76483.24	5732.31	13686.10	44144.15	41361.68	102572.02
7	Proportionate Capacity Charge (Rs. Lakh)	26116.69	75137.13	3036.49	9599.82	44009.12	28742.02	55017.39
8	Capacity Charge Admitted on PAF (Rs. Lakh) (7+4+5)	27997.20	76932.15	3081.31	9722.47	46110.73	28976.21	55198.73

3.27 Performance Incentive

3.27.1 In terms of regulation 2.6.1 of the Tariff Regulations, the annual performance review of WBPDCCL shall cover annual fixed charges and cost, incentives as per Schedule 10 and effects of gain sharing on the parameters under Schedule 9B which are not covered under the process of FPPCA.

3.27.2 From Table 1 above, it is observed that Kolaghat, Bakreswar and Sagardighi I have achieved oil rate lower than the normative oil rate. Therefore, the amount of incentive applicable for less oil consumption



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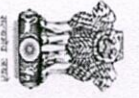
than norms as per Paragraph 3 of Schedule 10 of the Tariff Regulations is detailed below:

Table 46: Incentive Admitted for FY 2018-19 (Rs. Lakh)

Incentive	Normative Oil Consumption (mL/kWh)	Actual Oil Consumption (mL/kWh)	Difference (mL/kWh)	Gross Generation (MU)	Applicable Incentive (paise./kWh)	Applicable Incentive (Rs. Lakh)
Kolaghat#	2.00	1.76	0.24	4422.867	0.00	0.00
Bakreswar	1.30	0.43	0.87	7182.224	0.30	215.47
Sagardighi I#	1.00	0.96	0.04	2624.880	0.00	0.00

No incentive is applicable for Kolaghat and Sagardighi I as per Paragraph 3 of Schedule 10 of the Tariff Regulations

- 3.27.3 The Commission admits Incentive for Improved Performance amounting to Rs. 215.47 Lakh for Bakreswar TPS on account of less oil consumption than norms.

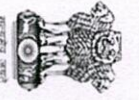


ANNEXURE-3A

DEPRECIATION, ADVANCE AGAINST DEPRECIATION AND LOAN REPAYMENT TILL 2018 – 19

Financial Year	Kolaghat			Bakreswar			Bandel		
	Depreciation	Advance Against Depreciation	Loan Repayment	Depreciation	Advance Against Depreciation	Loan Repayment	Depreciation	Advance Against Depreciation	Loan Repayment
2007 - 08	1654.11	0.00	5900.85	10781.32	0.00	32,058.38	212.74	0.00	0.00
2008 - 09	1317.86	0.00	939.90	10782.42	0.00	7,664.82	192.35	0.00	0.00
2009 - 10	3305.68	0.00	654.88	11923.52	0.00	18,638.10	202.88	0.00	0.00
2010 - 11	1248.98	0.00	409.37	19008.02	0.00	256.98	160.02	0.00	0.00
2011 - 12	825.23	0.00	0.00	19073.42	0.00	2,443.02	149.92	0.00	0.00
2012 - 13	756.02	0.00	0.00	18839.03	0.00	1,200.00	134.05	0.00	0.00
2013 - 14	761.54	0.00	0.00	18867.47	0.00	38,901.37	114.12	0.00	0.00
2014 - 15	758.24	0.00	0.00	18939.90	0.00	5,460.00	120.73	0.00	574.12
2015 - 16	748.33	0.00	0.00	18983.65	0.00	5,160.00	854.56	0.00	1331.94
2016 - 17	1086.81	0.00	0.00	18123.03	0.00	83,834.50	2629.50	0.00	1445.35
2017 - 18	1133.37	0.00	0.00	17657.11	0.00	11,010.77	2532.04	0.00	1420.38
2018 - 19	1491.30	0.00	0.00	16913.58	0.00	10,187.43	2543.39	0.00	0.00
Cumulative	15087.47		7904.99	199892.47		216815.37	9846.30		4771.79

Financial Year	Santalidih			Sagardighi I			Sagardighi II		
	Depreciation	Advance Against Depreciation	Loan Repayment admitted	Depreciation	Advance Against Depreciation	Loan Repayment	Depreciation	Advance Against Depreciation	Loan Repayment
2007 - 08	238.06	0.00	0.00	0.00	0.00	0.00			
2008 - 09	266.12	0.00	0.00	5296.36	1629.18	6925.54			
2009 - 10	5891.52	0.00	4731.82	10983.94	3512.59	14496.52			
2010 - 11	6416.22	289.45	6705.67	10998.78	462.71	11461.49			
2011 - 12	8616.42	80.88	8697.30	11027.89	445.98	11473.87			
2012 - 13	10618.25	4484.26	15102.52	11106.95	366.92	11473.87			
2013 - 14	9617.62	0.00	9452.94	11291.63	182.24	11473.87			
2014 - 15	9617.62	1317.31	11750.15	11707.33	0.00	11473.87			
2015 - 16	9762.23	358.93	10826.60	11665.50	0.00	11473.87			
2016 - 17	9727.84	0.00	7500.25	11460.32	0.00	11473.87	10961.83	0.00	0.00
2017 - 18	9754.07	777.30	10917.35	10973.96	0.00	11356.00	20530.67	0.00	20374.32
2018 - 19	9193.14	0.00	11658.36	10290.54	0.00	11473.87	20429.75	0.00	28107.21
Cumulative	97027.24		97342.96	123402.82		124556.64	51922.25		48481.53



ANNEXURE-3B

SUMMARY OF FIXED CHARGE FOR FY 2018-19

Figures in Rs. Lakh

Sl No.	Head of Fixed Charges	Claimed in APR										Admitted in APR									
		KTPS	BKTPS	BTPS I	BTPS II	STPS	SGTPS I	SGTPS II	KTPS	BKTPS	BTPS I	BTPS II	STPS	SGTPS I	SGTPS II						
1	Employee Cost	14024.55	14209.12	2430.98	4355.50	10412.40	7418.12	5725.92	14024.55	14209.12	2430.98	4355.50	10412.40	7418.12	5725.92						
2	Coal & Ash Handling Charges	3363.68	2100.31	73.36	131.43	1767.00	574.11	443.14	1880.51	1795.02	44.82	122.65	1646.54	234.19	181.34						
3	Water Charges	0.00	0.00	0.00	0.00	455.07	0.00	0.00	0.00	0.00	0.00	0.00	455.07	0.00	0.00						
4	Operation & Maintenance Expenses	15963.10	16594.43	3496.84	6264.93	6561.67	7281.86	5412.65	16262.47	13618.50	2120.40	3420.65	5020.00	5130.00	5418.20						
5	O&M Expenses for associated Transmission System	0.00	0.00	0.00	0.00	0.00	115.91	0.00	0.00	0.00	0.00	0.00	0.00	115.91	0.00						
6	Rates & Taxes, License & Registration Fee, Filing Fees, etc.	11.98	18.17	13.08	23.42	6.85	6.96	5.38	11.98	18.17	13.08	23.42	6.85	6.96	5.38						
7	Insurance Premium	310.11	667.56	25.32	45.37	202.77	230.19	177.68	310.11	667.56	25.32	45.37	202.77	230.19	177.68						
8	Interest on Capital Borrowings	0.00	11274.46	0.00	986.33	9820.37	6006.89	44952.58	0.00	10710.73	0.00	937.01	8310.98	5706.55	42704.95						
9	Interest on Normative Loan	0.00	208.98	0.00	0.00	0.00	79.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
10	Interest on Temporary Accommodation	2484.04	4140.91	267.89	479.96	2057.09	1981.05	1529.37	99.87	166.48	10.77	19.30	82.70	79.65	61.49						
11	Interest on Working Capital	2951.93	4920.88	318.34	570.37	2444.56	2354.20	1817.45	2001.25	2511.15	238.29	486.91	1395.53	1209.74	1817.45						
12	Other Finance Charges	284.45	472.87	30.60	54.83	236.53	3569.13	173.96	284.46	472.87	30.60	54.83	236.53	191.36	173.96						
13	Depreciation	1559.09	17803.98	159.46	2559.43	11393.75	11222.68	21791.88	1491.30	16913.58	152.32	2390.05	9193.14	10290.54	20429.75						
14	Advance Against Depreciation	0.00	0.00	0.00	0.00	264.61	251.20	6315.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
15	Taxes under IT Act	0.00	483.65	0.00	0.00	117.77	0.00	227.98	0.00	483.65	0.00	0.00	117.77	0.00	227.98						
16	Reserve for Unforeseen Exigencies								0.00	0.00	0.00	0.00	0.00	0.00	0.00						
17	Return on Equity	14457.79	22074.81	346.39	3263.80	11532.84	13691.19	28312.37	14423.74	21176.40	1018.40	2504.63	10502.20	12686.35	26659.28						
18	Charges Payable to ERPC	3.07	5.12	0.33	0.59	2.54	2.45	1.89	3.07	5.12	0.33	0.59	2.54	2.45	1.89						
19	Gross Fixed Charges	55713.16	95063.56	7163.54	18761.88	57723.96	54840.51	116893.12	50793.31	82748.35	6085.31	14360.91	47585.02	43302.01	103585.27						
20	Less: Income from Non-Tariff Sources	2582.53	3071.71	305.33	547.06	1326.89	1390.48	824.23	2606.61	3100.35	308.18	552.16	1339.26	1403.44	831.91						
21	Less: Interest Credit								0.00	0.00	0.00	0.00	0.00	0.00	0.00						
22	Less: Fixed Charge Recoverable from WBSETCL	0.00	1369.74	0.00	0.00	2317.28	302.70	0.00	0.00	1369.74	0.00	0.00	0.00	302.70	0.00						
23	Net Fixed Charges	53130.63	90622.11	6858.21	18214.82	54079.79	53147.33	116068.89	48186.70	78278.26	5777.13	13808.75	46245.76	41595.87	102753.36						



CHAPTER – 4 AMOUNT ADJUSTABLE ON APR

- 4.1 Based on the forgoing analysis and admissions of the adjustments under different factors / elements of fixed charges and fuel and power purchase cost, the re-determined admitted fixed charges as well as fuel cost of WBPDC during FY 2018-19 along with sharing of gain and incentives came as under:

Table 47: Net ARR Admitted for FY 2018-19 (Rs. Lakh)

Sl No.	Particulars	Kolaghat	Bakreswar	Bandel I	Bandel II	Santaldih	Sagardighi I	Sagardighi II
1	Admitted Fuel Cost	139509.53	175361.25	15847.50	32880.78	93237.19	85221.09	114592.16
2	Capacity Charge	27997.20	76932.15	3081.31	9722.47	46110.73	28976.21	55198.73
3	Less: Gain Sharing with WBSEDCL	0.00	0.00	0.00	0.00	4.97	0.00	0.00
4	Add: Incentives	0.00	215.47	0.00	0.00	0.00	0.00	0.00
5	Admitted Net ARR Recovery (1+2-3+4)	167506.76	252508.87	18928.81	42603.25	139342.95	114197.30	169790.89

- 4.2 WBPDC vide comprehensive supplementary petition dated 28.11.2022 has submitted the fuel cost and capacity charge recovered during 2018 – 19 in accordance with paragraph 6.5 of the Tariff Order dated 14.07.2021 as below:

Table 48: Revenue Recovered during FY 2018-19 (Rs. Lakh)

Figures in Rs. Lakhs

Generating Station	Energy Charges Recovered	MFCA Recovered	Capacity Charges Recovered	Total Revenue Recovered
Kolaghat	107636.36	40628.30	30226.32	178490.99
Bakreswar	136421.62	24412.49	76130.52	236964.63
Bandel I	12408.06	2889.17	2598.79	17896.02
Bandel II	24041.89	7675.23	8845.74	40562.86
Santaldih	75597.70	10732.21	45739.56	132069.46
Sagardighi I	54779.02	25967.20	27532.00	108278.23
Sagardighi II	71964.40	25830.50	58911.51	156706.41

- 4.3 In view of the admitted net ARR in table 47 above, WBPDC has to recover an amount of Rs. 33910.21 Lakh with cost centre-wise break-up analysis as given below:

Table 49: Amount Adjustable on APR for FY 2018-19 (Rs. Lakh)

Sl No.	Generating Station	Energy Charges Recovered	Capacity Charges Recovered	Revenue Recovered	Fuel Cost as Admitted	Capacity Charges as Admitted	Sharing of Gain with WBSEDCL	Incentives	Revenue Recoverable	Adjustable Amount
1	Kolaghat	148264.66	30226.32	178490.98	139509.53	27997.20	0.00	0.00	167506.73	(-) 10984.25
2	Bakreswar	160834.11	76130.52	236964.63	175361.25	76932.15	0.00	215.47	252508.87	15544.24
3	Bandel I	15297.23	2598.79	17896.02	15847.50	3081.31	0.00	0.00	18928.81	1032.79



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Sl No.	Generating Station	Energy Charges Recovered	Capacity Charges Recovered	Revenue Recovered	Fuel Cost as Admitted	Capacity Charges as Admitted	Sharing of Gain with WBSEDCL	Incentives	Revenue Recoverable	Adjustable Amount
4	Bandel II	31717.12	8845.74	40562.86	32880.78	9722.47	0.00	0.00	42603.25	2040.39
5	Santaldih	86329.91	45739.56	132069.47	93237.19	46110.73	4.97	0.00	139342.95	7273.48
6	Sagardighi I	80746.22	27532.00	108278.22	85221.09	28976.21	0.00	0.00	114197.30	5919.08
7	Sagardighi II	97794.90	58911.51	156706.41	114592.16	55198.73	0.00	0.00	169790.89	13084.48
8	Total	620984.15	249984.44	870968.59	656649.50	248018.80	4.97	215.47	904878.80	33910.21
Total Recoverable Amount										

- 4.4 The Additional Secretary to the Government of West Bengal in the Department of Power & NES vide letter no. 148-PO/O/VS/55-30/2016 dated 05.09.2016 has communicated that in exercise of the power conferred by Section 108 read with Section 65 of the Electricity Act, 2003, the State Government has agreed for extension of grant equivalent to outstanding loan and interest for an amount of Rs. 456316.00 Lakh to WBSEDCL and WBPDCCL in the following manner:

WBSEDCL
WBPDCCL

Rs. 264709.00 Lakh
Rs. 191607.00 Lakh

- 4.5 It is also mentioned in the aforesaid letter of Additional Secretary to the Government of West Bengal, Department of Power & NES that the grant may be adjusted with the balance regulatory assets up to 2012 - 2013 and realizable amount through APR and FCA / FPPCA claim of the two utilities from 2013 - 2014 onwards.
- 4.6 As per Order in Case No. OA-430/22-23 dated 05.09.2023, the Commission has stated that the balance amount of Government Grant available of Rs. 24443.10 Lakh shall be adjusted subsequently against any recoverable amount through APR and FPPCA claim of WBPDCCL for the year 2018 – 19 onwards. The FPPCA and APR of WBPDCCL for FY 2018-19 has now been finalized and total recoverable amount comes at Rs. 33910.21 Lakh. The Commission decides to adjust the recoverable against the remaining grant of 24443.10 Lakh and thus the net recoverable amount comes to Rs. 9467.11 Lakh (Rs. 33910.21 Lakh – Rs. 24443.10 Lakh).
- 4.7 Carrying Cost: In terms of clause (iv) of regulation 2.6.6 of the Fourth Amendment of the Tariff Regulations, carrying cost is allowable from 01.04.2023, i.e., the date of effect of the amendment. The Commission noted that, the net recoverable amount is only due to variation of the Fuel Cost. WBPDCCL has been allowed to recover variations of fuel cost through Monthly Fuel Cost Adjustment Formula (MFCA) in terms of regulation 5.8.9 of the Tariff Regulations and its annual reconciliation is to be carried out during FPPCA. From their submission in FPPCA petition (Table-B of page no 6), the Commission notes that, WBPDCCL had not recovered MFCA during February 2019 and March



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2019 amounting to Rs. 27736 Lakh. Thus, the Commission is of considered opinion that, if WBPDCCL had recovered the MFCA on monthly basis, there would not be any additional recovery of Rs. 9467.11 Lakh mentioned in paragraph 4.6 above. Though, the Commission admits the recovery through this APR & FPPCA order amounting to Rs. 9467.11 Lakh, but decides not to allow any carrying cost on the amount.

- 4.8 In view of the above, the Commission, in terms of regulation 2.6.6 of the Tariff Regulations, decides to adjust the net recoverable amount of Rs. 9467.11 Lakh for the year 2018 – 19 from its purchaser of electricity i.e., WBSEDCL in twelve (12) monthly installments. The Commission directs WBPDCCL to recover an amount of Rs. 788.93 Lakh from its sole beneficiary (WBSEDCL) along with its monthly bills commencing from April, 2025.
- 4.9 WBPDCCL is to take note of this order.
- 4.10 The Petitions are thus disposed of.
- 4.11 A copy of the order shall be posted in the website of the Commission.
- 4.12 WBPDCCL shall download the copy of the order from website of the Commission and act on it. Certified copy of the order, if applied for, be given to the parties on completion of formalities laid down in the West Bengal Electricity Regulatory Commission (Conduct of Business) Regulations, 2013 as amended and on submission of necessary fees.

Sd/-

(DR. MALLELA VENKATESWARA RAO)
CHAIRPERSON

Dated: 12.03.2025

Sd/-

DEPUTY DIRECTOR, WBERC