WEST BENGAL
STATE ELECTRICITY
DISTRIBUTION COMPANY LIMITED

WBSEDCL

FPPCA (Fuel and Power Purchase Cost Adjustment) Application for the year 2023-24

Submitted to the

HON'BLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION

भारतीय गैर न्यायिक

भारत

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पश्चिम बंगाल WEST BENGAL 94AB 488589

BIDHANNAGAR SUB-DIVN. 24 PGS. (N) B. N. SAHA NOTARY 23/2097 Govt. of W. B. (INDIA)

BEFORE THE HONOURABLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION, KOLKATA

File No. _____

Case No. _____

IN THE MATTER OF: **Fuel and Power Purchase Cost Adjustment (FPPCA) of West Bengal State Electricity Distribution Company Limited (WBSEDCL) for the year 2023-24 as per regulations 2.8.7 and 5.8 and Schedule-7A of West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended.**

And

IN THE MATTER OF: **West Bengal State Electricity Distribution Company Limited, Vidyut Bhawan, Block DJ, Sector – II, Bidhannagar, Kolkata – 700 091.**

B. N. SAHA
NOTARY
Bikash Bhavan
North Block, 3rd Floor
Bidhannagar, Kolkata
West Bengal

Santanu Saha
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

20 SEP 2024

542635

NAME W.B.S.E.B.C.L.
ADD. Bidyut Bhawan
Rs. Kol-91
12 FEB 2024
S. CHATTERJEE
Licensed Stamp Vendor
C. C. Court
2 & 3, K. S. Roy Road, Kol-1

12 FEB 2024

12 FEB 2024

BIDHANNAGAR SUB-DIVN. 24 PGS. (N) B. N. SAHA NOTARY 23/2097 Govt. of W. B. (INDIA)

BIDHANNAGAR SUB-DIVN. 24 PGS. (N) B. N. SAHA NOTARY 23/2097 Govt. of W. B. (INDIA)

BEFORE THE NOTARY PUBLIC

AFFIDAVIT

I, Sri Santanu Sarkar, son of late Sujit Kr. Sarkar, aged 58 years by faith Hindu residing at Green Field Heights. Flat No: Aditya 9C, New Town, Kolkata – 700156 do hereby solemnly affirm and declare as follows:

1. That I am the Chief Engineer (Regulation) of the West Bengal State Electricity Distribution Company Limited and have been acquainted with the fact and circumstances narrated in the application in respect of which the affidavit is sworn.

2. I have been authorized to swear this affidavit on behalf of West Bengal State Electricity Distribution Company Limited as I am competent to do so.

3. The statements made in paragraphs 1 to 23 with Annexure - I to III are true to my knowledge and belief and the statement made in other paragraphs of the application are matters of records made available to me and based on information received which I believe to be true and correct.

Place: Kolkata

Date:

Deponent

Santanu Sarkar
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

B. N. SAHA
NOTARY
Bikash Bhavan
North Block, Gr. Floor
Bidhannagar, Kolkata
West Bengal

Solemnly Affirmed
&
Declared Before me
on Identification of Advocate

IDENTIFIED BY ME

ADVOCATE

B. N. SAHA
Notary

20 SEP 2024

BEFORE THE HONOURABLE WEST BENGAL ELECTRICITY REGULATORY COMMISSION, KOLKATA

B. N. SAHA NOTARY 25/2002 BIDHANNAGAR SUB-DIVN. 24 PGS (N) Govt. of W.B. (INDIA)

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In the matter of : **Fuel and Power Purchase Cost Adjustment (FPPCA) of West Bengal State Electricity Distribution Company Limited (WBSEDCL) for the year 2023-24 as per regulations 2.8.7 and 5.8 and Schedule-7A of West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended.**

AND

In the matter of : **West Bengal State Electricity Distribution Company Limited,**
Vidyut Bhavan, Block – DJ, Sector-II, Bidhannagar, Kolkata – 700 091

Respectfully Sheweth:

1. That the petitioner herein the West Bengal State Electricity Distribution Company Limited (hereinafter to be referred as "WBSEDCL") is a Distribution Licensee under Electricity Act, 2003 and engaged in the business of generation, distribution and supply of electricity.

2. That this application is being filed in terms of regulations 2.8.7 and 5.8 of West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 as amended (hereinafter to be referred as "Tariff Regulations 2011").

3. That Hon'ble West Bengal Electricity Regulatory Commission (hereinafter to be referred as "Commission") has passed Tariff Order of WBSEDCL for the year 2023-24 on 30/03/2023. Based on admitted power purchase and fuel cost of the above Tariff Order, Fuel and Power Purchase Cost Adjustment (in short "FPPCA") application is now being filed.

4. That Annual Accounts for the year 2023-24 of WBSEDCL (in short "Annual Accounts") is finalized and duly audited by the statutory auditor which has been duly passed in the meeting of the Board of Directors on 21.05.2024 and CAG audit has been completed on 07.08.2024.

Santanu Sarkar
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

The Annual Accounts is enclosed as **Appendix-I**. Auditor's Certificate is enclosed as **Annexure-IA** wherein break-up of power purchase cost (agency-wise) of Annual Accounts in respect of different sources / power stations are given segregating the Transmission charge / Open access charge. Transmission charge / Open access charge will be claimed in the APR application for 2023-24.

5. That to compute the Fuel and Power Purchase Cost (FPPC) for the year 2023-24, the power purchase cost, fuel cost and sale to person other than consumers and licensees are considered as per Annual Accounts of WBSEDCL for the year 2023-24.

6. That in terms of regulation 2.8.7 of Tariff Regulations 2011, the FPPC admissible under the process of Fuel and Power Purchase Cost Adjustment in respect of WBSEDCL has been worked out for the year 2023-24 as per the relevant formula for Fuel and Power Purchase Cost Adjustment (FPPCA) for licensee specified in Schedule-7A of Tariff Regulations 2011 as amended.

7. That power purchase cost in respect of WBSEDCL for purchase of power from different power supply agencies during the year 2023-24 is furnished hereunder :

a) Purchase of power from Damodar Valley Corporation (DVC) :

WBSEDCL purchased power from DVC in radial mode in different off-take points at 132 KV & 33 KV for power supply to consumers during the year 2023-24. WBSEDCL had also purchased power through grid from Mejia Thermal Power Station (Unit V) [In short "Mejia V"] of DVC during the year 2023-24 at the rate determined by Central Electricity Regulatory Commission (hereinafter to be referred as "CERC").

Purchase of energy and associated costs from DVC during the year 2023-24 are given below:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
DVC-Radial	484.548	22057
Mejia V	263.522	13793
DVC Total	748.070	35850

Refer the Auditor's Certificate enclosed as Annexure-IA for the above break up of power purchase cost of Annual Accounts in respect of DVC.

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b) Purchase of power from Durgapur Projects Limited (DPL):

WBSEDCL purchased entire power from unit #7 and unit #8 of the Thermal Power Stations of DPL during the year 2023-24 as per Tariff Order for the 2021-22 dated 16.07.2021 i.r.o DPL.

Purchase of energy from DPL and the associated cost thereof during the year 2023-24 are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
DPL(unit #7 & #8)	2102.816	83077
DPL Total	**2102.816**	**83077**

Refer the Auditor's Certificate enclosed as Annexure-IA for the above break up of power purchase cost of Annual Accounts in respect of DPL.

c) Purchase of power from West Bengal Power Development Corporation Ltd (WBPDCL):

WBSEDCL had purchased power from all the Thermal Power Stations (TPS) of WBPDCL at Bandel, Kolaghat, Sagardighi, Bakreswar and Santaldih during the year 2023-24 at the rate determined by WBERC for the year 2023-24. The energy purchased by WBSEDCL from different power stations of WBPDCL during the year 2023-24 and the associated cost as per Annual Accounts of WBSEDCL for the year 2023-24 are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
Kolaghat TPS(KTPS)	4803.402	208258
Bakreswar TPS (Stg-I&II)	7393.673	269726
Bandel TPS(BTPS-I)	211.145	10610
Bandel TPS(BTPS-II)	1383.757	62390
Santaldih TPS(STPS)	3581.836	152178
Sagardighi TPS(Stg-I)	3963.382	135637
Sagardighi TPS(Stg-II)	6575.372	259089
WBPDCL Total	**27912.567**	**1097888**

Refer the Auditor's Certificate enclosed as Annexure-IA for the above break up of power purchase cost ~~of~~ in Annual Accounts in respect of WBPDCL.

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d) Purchase of power from NTPC Limited (NTPC):

WBSEDCL purchased power from different thermal power plant of NTPC during the year 2023-24 at the rate determined by CERC. Purchases of energy by WBSEDCL from NTPC's different power stations during the year 2023-24 along with the associated costs are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
Farraka STPS (Stg I & II)	3035.035	152095
Farraka STPS (Stg III)	1108.218	58465
Talcher STPS	711.083	20361
Kahelgaon I	353.519	15175
Kahalgaon II	55.195	2152
Darlipali	1917.521	57541
NTPC-BARH TPS-I	54.155	3122
NTPC Ltd. Muzaffarpur TPS(Kanti Bijli)	219.459	11536
NTPC-Nabinagar STPS-1	78.885	3758
NTPC-Barh STPS-2	88.155	4948
North Karanpura TPS-I	317.652	11914
NTPC Total	**7938.877**	**341067**

Refer the Auditor's Certificate enclosed as Annexure-IA for the above break up of power purchase cost in Annual Accounts in respect of NTPC.

e) Purchase of power from NHPC Limited (NHPC):

During the year 2023-24, WBSEDCL had purchased hydro power from NHPC (Rangit HEP, Teesta-V HEP, TLDP-III and TLDP-IV) at CERC determined tariff.

The purchase of energy by WBSEDCL from NHPC (Rangit HEP, Teesta-V HEP, TLDP- III and TLDP-IV) during the year 2023-24 along with the associated costs are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
Teesta-V HEP	471.409	9883
Rangit HEP	68.594	2865
Teesta Lower Dam Project- III HEP	406.106	22996
Teesta Lower Dam Project- IV HEP	627.134	26660
NHPC Total	**1573.242**	**62404**

Refer the Auditor's Certificate enclosed as **Annexure-IA** for the above break up of power purchase cost in Annual Accounts in respect of NHPC.

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f) Purchase of power through PTC India Ltd.(PTC):

During the year 2023-24, WBSEDCL had purchased power from different Hydro Power Station (in short "HEP") viz. Chukha HEP, Kurichhu HEP and Tala HEP. WBSEDCL had also purchased thermal power from Adhunik Power (APNRL) and hydro power from Mangdechhu through PTC as per rate of respective Power Purchase Agreement (PPA).

The purchase of energy during the year 2023-24 by WBSEDCL through PTC from Chukha HEP, Kurichhu HEP, Tala HEP, Adhunik Power and Mangdechhu and the associated costs are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
Chukha HEP	274.755	8353
Kurichu HEP	11.062	316
Tala HEP	472.549	10727
Adhunik/APNRL	479.081	21101
Mangdechhu	688.663	28855
PTC Total	**1926.110**	**69352**

Refer the Auditor's Certificate enclosed as **Annexure-IA** for the above break up of power purchase cost in Annual Accounts in respect of PTC.

g) Purchase of power through Tata Power Trading Company Ltd (TPTCL):

During the year 2023-24, WBSEDCL purchased thermal power from Mithon Right Bank Thermal Power Station (in short "MRBTPS") through TPTCL at CERC determined tariff. WBSEDCL also purchased hydro power from Dagachhu HEP through medium–term contract as per rate of the PPA. WBSEDCL also purchased short-term power through Tata Power Trading Company Ltd (TPTCL).

The purchase of energy during the year 2023-24 by WBSEDCL through TPTCL from MRBTPS and Dagachhu HEP of Bhutan and the associated costs are given hereunder:

Name of the Power Station	Energy (MKWH)	Costs (Rs. Lakh)
MRBTPS	2290.115	97565
Dagachhu HEP	409.520	16355
Short-term	34.095	2944
TPTCL Total	**2733.731**	**116864**

Refer the Auditor's Certificate enclosed as **Annexure-IA** for the above break up of power purchase cost in Annual Accounts in respect of TPTCL.

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h) **Co-generation/Renewable Sources of Energy**: To meet RPO requirement the generation of the mini/micro hydel generating stations, treated as renewable sources of energy, of WBSEDCL for the year 2023-24 is as follows:

Name of the Mini/Micro generating station	Injection Voltage	Gross Generation in MU	Aux. Consumption in MU	Net Generation in MU
Jaldhaka Hydel PS Stg-II	EHV	26.049	0.260	25.788
Teesta Canal Fall, Hydel PS-I	EHV	40.907	0.409	40.498
Teesta Canal Fall, Hydel PS-II	EHV	39.349	0.393	38.955
Teesta Canal Fall, Hydel PS-III	EHV	38.490	0.385	38.105
Richington Hydel PS	HV	5.432	0.054	5.378
Little Rangit Hydel PS	HV	8.158	0.082	8.076
Mangpoo Kalikhola Hydel PS	HV	7.668	0.077	7.591
Sidrapong Hydel PS	HV	0.199	0.002	0.197
Messanjore Hydel PS	HV	4.424	0.044	4.380
Fazi Hydel PS	HV	4.165	0.042	4.124
Total Mini/Micro Hydel Generation:		**174.841**	**1.748**	**173.093**

Besides own generation of WBSEDCL from the above stated mini/micro hydel power stations, WBSEDCL also purchased following quantum of power from different Co-generation / Renewable sources during the year 2023-24 as per rate of respective PPA. The quantum of energy purchased by WBSEDCL from different Co-generation / Renewable sources of energy during the year 2023-24 along with the associated cost are given hereunder:

Name of the Renewable & Non-conventional agencies	Energy (MKWH)	Costs (Rs. Lakh)
Electro Steel Casting Limited	18.032	456
Neora Hydro Limited	7.496	270
Nippon Power Limited	11.615	418
Himadri Chemicals & Industries Ltd	80.523	2410
Shree Renuka Sugars Ltd.	29.675	816
Rashmi Ispat	8.561	190
Reshmi Cements Ltd	29.261	597
Bengal Energy Limited	69.708	1980
Alaknand Balmukund	2.451	49
NVVN (Bundle Power with 65.325 MU Solar Power)	372.606	20543
Solitaire	6.549	754
Total :	**636.477**	**28483**

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WBSEDCL had also invited bid repeatedly to procure power from Co-generation / Renewable sources within the cap price fixed by the Commission to meet the RPO target, but failed to get bidder for required quantum of power from Co-generation / Renewable sources which is intimated to the Commission time to time.

i) **Purchase of short term power through traders and power exchanges:**

Following the regulatory process, WBSEDCL purchased power from conventional sources on short term basis through traders and through power exchanges during the year 2023-24, as and when basis, to meet power shortage.

To keep un-interrupted power supply, short term power was purchased time to time during the period of outage of generating unit(s) or increase of system demand with respect to generation availability during festival and pre-examination period, at the time of Madhyamik, Higher Secondary/ ISC/ CBSE examination or any other time during the year 2023-24.

Quantum of short term power purchased through traders and power exchanges during the year 2023-24 by WBSEDCL along with the associated cost are stated hereunder.

Name of the Traders / power exchanges from which short term power purchased	Energy (MKWH)	Costs (Rs. Lakh)
Hindustan Power Exchange Limited(HPXL)	546.013	41739
Power Exchange India Ltd. (PXIL)	1078.753	82775
Indian Energy Exchange Ltd. (IEX)	4948.860	269365
Total	**6573.626**	**393879**

Refer the Auditor's Certificate enclosed as **Annexure-IA** for the above break up of short term power purchase cost in Annual Accounts.

Further, Rs.19603 lakh were paid as Short Term Open Access charge for purchase of above stated short term power in 2023-24. This amount has not been considered in this application for FPPCA for the year 2023-24 as such cost / charge will be considered in the application for Annual Performance Review (in short "APR") for the year 2023-24 as it is transmission charge in nature and a fixed cost item as per Tariff Regulations 2011 as amended.

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j) **Purchase of power from CESC Ltd. :**

During the year 2023-24 the quantum of energy drawn by WBSEDCL from CESC Ltd. on radial mode (at WBERC determined tariff) along with associated cost are given hereunder:

Energy (MKWH)	Costs (Rs. Lakh)
9.350	612

k) **Purchase of power from Assam Power Distribution Company Ltd :**

During the year 2023-24 the quantum of energy drawn by WBSEDCL from Assam on radial mode (as per approved PPA) to meet power requirement of the border area of the state are given hereunder along with associated cost:

Energy (MKWH)	Costs (Rs. Lakh)
0.984	105

l) **Purchase of power from Jharkhand Bijli Vitaran Nigam Ltd (JBVNL) :**

During the year 2023-24 the quantum of energy drawn by WBSEDCL from JBVNL on radial mode (as per approved PPA) to meet power requirement of the border area of the state are given hereunder along with associated cost:

Energy (MKWH)	Costs (Rs. Lakh)
0.212	54

m) **Purchase of power from Hiranmayee Energy Ltd (HMEL) :**

During the year 2023-24 the quantum of energy drawn by WBSEDCL from HMEL (at WBERC determined tariff) along with associated cost are given hereunder:

Energy (MKWH)	Costs (Rs. Lakh)
1679.517	91170

n) **Purchase of power from Govt. of Sikkim :**

During the year 2023-24 the quantum of energy drawn by WBSEDCL from Govt. of Sikkim along with associated cost are given hereunder:

Energy (MKWH)	Costs (Rs. Lakh)
0.120	7

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8. **Deviation Settlement Mechanism (DSM)**:

During the year 2023-24 WBSEDCL has drawn more power in some periods than the scheduled drawal due to variation of demand and generation availability. The quantum of power drawn under Deviation Settlement mechanism along with associated cost is given hereunder:

Energy MKWH	Costs Rs. Lakhs
137.150	2533

WBSEDCL has received of Rs. 640 lakh from SLDC on account of Deviation Settlement Mechanism (DSM) as arrear of previous year. This amount has not been considered in this application for FPPCA for the year 2023-24 as such cost / charge will be considered in the application for Annual Performance Review (in short "APR") for the year 2023-24.

9. WBSEDCL's liability on account of purchase of power from different power supply agencies during the year 2023-24 have been indicated in **Annexure-I.**

10. **Power Purchase Cost against 'Energy Sold to Other than Licensee & Consumer' :-**

As per direction of Hon'ble WBERC vide order dated 29/09/2021, necessary details with relevant data and justification are detailed below:

(a) The inherent nature of electricity business that power demands of the different categories of the consumers are different and it varies within different periods of the day (morning to night), seasons and also year depending on economic activities. During power surplus situation when consumers' demand is low, WBSEDCL is compelled to balance the demand and availability to maintain grid discipline either by backing down the generation or sell surplus power to the persons other than its own consumers and licensees and/or banking of power.

(b) The sale of surplus power has been done keeping in mind the maximum benefit of WBSEDCL's consumers and thus such sale is done where recovery of full fuel cost (variable cost) of generation along with part of fixed cost (capacity charge) of power purchase is ensured since such burden of capacity charge of power station is to be borne by Discom (i.e consumers) as per regulation in case of declaring availability by generators.

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(c) Benefit to consumers for such sale of power:

i) Financial impact of capacity charge of long-term thermal power on consumers is found to be Rs 6,28,432 lakh for the year 2023-24, if the surplus power is not sold to the persons other than its own consumers and licensees

ii) Saving of energy charge has been computed as per methodology followed by Hon'ble Commission during passing APR Order for the year 2019-20 in respect of WBSEDCL. Accordingly saving of energy cost on backing down of long term thermal power for the year 2023-24 comes to Rs 43300.29 lakh (1668.026 MU x 259.59 P/kWh) (considering average energy charge of Long Term thermal power purchase, as indicated in **Annexure-I** and **Annexure-IB**.)

iii) Net Income from such sale is Rs. 79672 lakh

iv) Total saving from this sale Rs. 36371.71 lakh (i.e. Rs. 79672 lakh – Rs. 43300.29 lakh)

v) Net benefit to consumers (considering 50% gain sharing) is Rs 18185.86 lakhs

vi) To reduce the capacity charge burden of the consumers, WBSEDCL has sold the surplus power to the persons other than its own consumer and licensees instead of generation backing down.

Hence proportionate power cost i.r.o sale of surplus power to the persons other than its own consumer and licensees is calculated considering variable cost of Long term power to share part of fixed cost to consumers from such sale as per Form-1.24 of APR application. Variable cost of long term power is duly certified by statutory auditors and enclosed as **Annexure-IB**.

For the year 2023-24, quantum of energy sold to other than licensee and consumer along with proportionate power cost and associated cost are given here under (refer **Annexure-I**):

Energy	**Proportionate power purchase cost @** 259.59 **Paise/kWh**
MKWH	**Rs. Lakh**
1668.026	**43300.29**

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11. **Timely Payment Rebate :** Rebate for timely payment of Power Purchase bills for the year 2023-24 is Rs. 2589 lakh, refer **Appendix-I**.

12. **Security Constraint Economic Despatch (SCED):** WBSEDCL has received of Rs. 559 lakh from SLDC on account of SCED during the year 2023-24 (please refer **Annexure-IC**) which may be considered for adjustment with power purchase cost.

13. For computation of actual energy available, energy surrendered (out) under Deviation Settlement Mechanism, grid loss in Central Transmission Utility (in short "CTU") system and State Transmission Utility (in short "STU") system for import of power from the above generating stations have also been deducted from scheduled drawl. The grid loss in CTU system for purchase of power for the year 2023-24 was 730.061 MU as per loss declared for CTU system by National Load Dispatch Centre (in short "NLDC"). Energy surrendered (out) under Deviation Settlement mechanisms computed by SLDC for the year 2023-24 was 554.258 MU whereas STU loss at normative level of 2.7% for such power in the system is considered as 15.38 MU. So total energy surrendered (out) under Deviation Settlement mechanisms including STU loss comes to 569.638 MU.

14. During the year 2023-24 actual sent-out generation from own generating stations of WBSEDCL has become 1997.212 MU which has been considered in the computation of FPPCA for the year 2023-24. The station-wise generation of WBSEDCL is given below:

Name of the generating station	Injection Voltage	Gross Generation in MU	Aux. Consumption in MU	Net Generation in MU	Remarks
Rammam Hydel PS	EHV	167.735	1.677	166.058	
Jaldhaka Hydel PSI	EHV	140.182	1.402	138.780	
Total Mini/Micro Hydel Generation:	EHV/HV	174.841	1.748	173.093	Refer para. 7(h)
Total Hydel Generation:		482.759	4.828	477.931	
Purulia Pumped Storage Project (PPSP)	EHV	1366.936	23.238	1343.698	
Solar Project	HV	147.517	0.00	147.517	
Total :		**1,997.212**	**28.066**	**1,969.146**	

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15. **Pumping energy for Purulia Pumped Storage Project (in short "PPSP"):**

The gross generation of PPSP in the year 2023-24 was 1366.936 MU. Considering the normative cycle efficiency of PPSP at 74%, the energy required for pumping at PPSP during the year 2023-24 was 1847.211 MU [1366.936 / 0.74].

Considering normative transmission loss @ 2.7% as per Tariff Regulations 2011, as amended, the input energy for pumping power of PPSP for the year 2023-24 becomes 1898.470 MU and the same is considered in this FPPCA application for energy balance for the year 2023-24.

16. The energy balance based on actual power purchase, own sent out generation and sale of energy in respect of WBSEDCL for the year 2023-24 is given below which has been considered in the computation of FPPCA for the year 2023-24.

Energy Balance			
Sl No	**Particulars**	**2023-24**	**Remarks**
		Energy in MU	
1	Own sent out at EHV	1791.884	
2	Gross purchase at EHV	53512.070	
3	Power Swap in at EHV	403.300	
4	Power drawal under DSM	137.150	
5	CTU Grid loss	-730.061	
6	**Energy Available at EHV (1+2+3+4-5)**	55114.342	
7	Normative STU Transmission Loss	1488.087	
8	Sale to licensee inclusive transmission loss	37.033	
9	PPSP pumping power from EHV inclusive transmission loss	1898.470	Refer para 15 on pumping energy for PPSP
10	Energy sale to other than licensee and consumer in MU inclusive transmission loss	1668.026	
11	Swap Power out	435.216	
12	Power Out under DSM inclusive transmission loss	569.638	
13	Own sent out at 33 kV and Below	177.263	Net own sent out (1791.884+177.263) =1969.146 MU
14	Gross purchase at 33 kV and Below	495.330	
15	Energy Received for wheeling at 33 kV	149.820	
16	**Energy available at WBSEDCL System (16=6-7-8-9-10-11-12+13+14+15)**	49840.285	

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Energy Balance			
Sl No	Particulars	2023-24	Remarks
		Energy in MU	
17	Unit wheeled in MU (including addl. unit allowed)	149.820	
18	Energy sale to own consumer & DPSC in MU	41553.474	Including 85.965 MU sale to DPSC from Distribution system
19	Own consumption by WBSEDCL	75.000	
20	Un-utilized Units	8061.990	

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17. Actual purchase of power by WBSEDCL for sale to own consumer and licensee during the year 2023-24 has been given in the **Annexure-II**.

18. Power Purchase bill related to Prior Period:

    i.) DVC has raised bills on account of revision of energy charge rate, revision of AFC and also ash transportation charges with interest etc. Finally Rs.151 lakh becomes receivable /received during the year 2023-24 by WBSEDCL from to DVC.

    ii.) NTPC Limited has raised bills and credit notes on account of RSD compensation, additional O&M charges & RLDC Charges, energy charges due to Wage revision, deferred tax liability, non-tariff income share, and ash transportation charges in the year 2023-24 for prior period. Finally, Rs. 19137 lakh becomes payable /paid during the year 2023-24 by WBSEDCL to NTPC on account of prior period.

    iii.) NHPC Limited has raised bills on account of revision of AFC, truing up AFC revision of 2014-2019 & determination of tariff 2019-24, revision of AFC effective tax rate of 2022-23, energy charges short fall during generation for reason beyond control of 2018-19, recovery of additional income tax paid by NHPC on account of advance against depreciation since April-2009, and deferred tax liability for FY: 2022-2023 etc. Finally, Rs. 20285 lakh becomes payable /paid during the year 2023-24 by WBSEDCL to NHPC on account of prior period.

    iv.) PTC India Limited has raised bills on account of excess provision for APNRL Dec-22 written back, revision of tariff of Jan-2011 to Oct-2023 & supplementary energy bill of RTC power for the month Jan-2023. Finally

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Regulation Department
WBSEDCL

Rs.6964 lakh becomes payable /paid by WBSEDCL to PTC India Ltd during the year 2023-24 on account of prior period.

v.) Tata Power Trading Company Limited (TPTCL) has raised bills on account of ERLDC charges & FERV charges, truing up ERLDC fees for 2022-23, gain sharing of RTM power sale & non-tariff income of FY:22-23, refining of load FY2023, reimbursement of ERLDC fees & charges of PLI of 2020-2022 & differential billing of STOA & SOC-MOC. Finally Rs. 3501 lakh becomes payable /paid by WBSEDCL to TPTCL during the year 2023-24 on account of prior period.

vi.) DPL has raised bills/credit notes related to adjustment of prior period amounting to Rs. 19703 lakh on account of difference in billing of Sept-20, Oct-20, Mar-21 & Jan-21 bills and excess LPSC provision of 31.03.2023 written back, net payable to DPL on account of tariff order 22-23 & reversal of MFCA liability on account of tariff order 22-23. The same has been receivable /received by WBSEDCL during the year 2023-24.

vii.) HMEL has raised bills/credit notes related to adjustment of prior period amounting to Rs.61 lakh on account of revision of capacity charges of aug-2022. The same has been payable /paid by WBSEDCL during the year 2023-24.

viii.) During computation of FPPCA as specified in Schedule-7A and Regulation 2.8.6.1 of Tariff Regulations, 2011 it is observed that admitted energy is more than actual purchase due to actual Distribution loss is lower than normative for the period 2023-24.

19. The Fuel and Power Purchase Cost thus computed as per the relevant formula as specified in Schedule-7A and Regulation 2.8.6.1 of Tariff Regulations, 2011 for energy sold to own consumers and other licensee comes to Rs. 23173.01 Crore. The computation of Fuel & Power Purchase Cost (FPPC) for the year 2023-24 has been given in **Annexure-III**.

20. **Saving in Distribution Loss and gain sharing :**

The saving on account of improvement in distribution loss w.r.t norms during the year 2023-24 is 165.024 MU. In terms of regulation 2.2.5.2 read with regulation 2.5.5.4 of the tariff regulation (as amended), gain is required to be shared between the Distribution Licensee & consumers at the ratio 2:1. The saving on this account comes to Rs 71.20 Crore (Computation is enclosed as **Annexure-IIIA**). Thus, one third of above savings i.e Rs 23.73 Crore may be passed on to the consumers & other Licensees and balance two third of the

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Regulation Department
WBSEDCL

gain i.e Rs 47.47 Crore may be released to WBSEDCL along with FPPC amount of Rs 23173.01 Crore as referred under para (19) above.

21. **Payment through bill discounting to NHPC:**

Payment of arrear to NHPC Ltd. as per Order dated 09.11.2023:

WBSEDCL had submitted an application before the Hon'ble Commission on 08.05.2023 for allowing payment of energy bill i.r.o. NHPC of Rs. 33351 lakh (for the month of June'22 to August'22) through bill discounting. Approval in this regards has been issued by the Hon'ble commission on 09.11.2023.

During the financial year 2023-24, WBSEDCL has paid Rs 18131.22 lakh regarding this scheme and details are as follows

SL no	Bank Name	No(s) of Installment(s) paid during 2023-24	Total Amount Paid (Rs in Lakh)
1	IDBI Bank, Karol Bagh, New Delhi	5	5298.78
2	UCO Bank, 5 Parliament Street, New Delhi	6	6344.81
3	IDBI Bank, Karol Bagh, New Delhi	7	6487.63
Total Amount paid during the year 2023-24			18131.22

As per direction of Hon'ble Commission vide its order dated 09/11/2023, details of installments paid during the year 2023-24 duly certified by Auditor's Certificate is enclosed as Annexure-ID.

Therefore, Rs 181.31 Crore as stated above may kindly be allowed to WBSEDCL along with FPPC amount of Rs. 23173.01 Crore as referred under para (20) above.

22. That total FPPCA for 2023-24 shall be as follows:

Sl no	Particulars	Amount (Rs in Crore)
1	FPPCA as per para (19)	23173.01
2	Add: Gain sharing as per para (20)	47.47
3	Add: Installment paid as per bill discounting arrangement (Refer under para (21)	181.31
4	Total FPPCA Claim (4 = 1+2+3)	**23401.79**

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Regulation Department
WBSEDCL

23. Hence Total FPPC amount for 2023-24 becomes Rs. **23401.79** Crore considering amount as arrived in paragraph (22).

PRAYER TO THE HON'BLE COMMISSION:

The Petitioner humbly prays to the Hon'ble Commission to:

1. Admit the application.
2. Approve Fuel and Power Purchase Cost (FPPC) of Rs. **23401.79** Crore for the year 2023-24 in respect of WBSEDCL.
3. Pass an order as the Hon'ble Commission may deem fit.

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Regulation Department
WBSEDCL

Annexure- I

Computation of cost of power purchase during the year 2023-24 [PPC]

Name of Power Supply Agency	Energy Purchase		
	Actual Power Purchase cost (PPC)	Power purchase cost as approved by the Commission in the Tariff order for 2023-24 (ppc)	Remarks
	(Rs)	(Rs)	
Long Term			
NTPC Limited (FSTPS)	21,05,60,00,000	24,24,14,00,000	
NTPC Limited (TSTPS)	2,03,61,00,000	1,92,02,00,000	
NTPC Limited (Kahelgaon-Stage I&II)	1,73,27,00,000	1,69,53,00,000	
NTPC Limited (Darlipalli-Stage1)	5,75,41,00,000	5,78,31,00,000	
NTPC-BARH (STPS-1 & STPS-2)	80,70,00,000		
NTPC Ltd. Muzaffarpur TPS (Kanti Bijli)	1,15,36,00,000		
NTPC-Nabinagar STPS-1	37,58,00,000		
NTPC North Karanpura TPS-I	1,19,14,00,000		
PTC (India) Limited (Chukha)	83,53,00,000	1,34,70,00,000	
PTC (India) Limited (Kurichhu)	3,16,00,000	7,97,00,000	
PTC (India) Limited (Tala)	1,07,27,00,000	2,48,07,00,000	
Damodar Valley Corporation - Grid (Mejia V)	1,37,93,00,000	1,71,67,00,000	
Damodar Valley Corporation -Radial	2,20,57,00,000	1,27,58,00,000	
Durgapur Projects Limited	8,30,77,00,000	14,31,31,00,000	
NHPC Limited (Rangit)	28,65,00,000	33,37,00,000	
NHPC Limited (Teesta V)	98,83,00,000	1,36,99,00,000	
NHPC Limited (TLDP III)	2,29,96,00,000	3,13,58,00,000	
NHPC Limited (TLDP IV)	2,66,60,00,000	3,05,45,00,000	
NHPC -Solar		31,26,00,000	
Govt. of Sikkim	7,00,000.0	23,00,000	
West Bengal Power Development Corporation Limited	1,09,78,88,00,000	1,00,92,99,00,000	
WBPDCL Solar		4,61,00,000	
West Bengal Renewable Energy Development Agency	0	95,00,000	
CESC Limited	6,12,00,000	9,29,00,000	
Electro Steel Casting Limited	4,56,00,000	4,19,00,000	
Neora Hydro Limited	2,70,00,000	3,48,00,000	
Nippon Power Limited	4,18,00,000	4,69,00,000	
Himadri Chemicals & Industries Ltd	24,10,00,000	27,84,00,000	
Shree Renuka Sugars Ltd.	8,16,00,000	1,93,00,000	
Rashmi Ispat	1,90,00,000	1,78,00,000	
Reshmi Cements Ltd	5,97,00,000	58,00,000	
Bengal Energy Limited	19,80,00,000	82,27,00,000	
Alakananda Balmukund	49,00,000	90,00,000	
NVVN Bundle Power(Solar & Thermal)	2,05,43,00,000	2,63,02,00,000	
TPTCL (Mithon Right Bank)	9,75,65,00,000	8,83,18,00,000	
TPTCL (Dagachhu)	1,63,55,00,000	2,20,91,00,000	
Punatsanchu HEP	0	2,10,11,00,000	
PTC (India) Limited (Adhunik)	2,11,01,00,000	3,17,59,00,000	
PTC (India) Limited (Mangdechhu)	2,88,55,00,000	4,03,29,00,000	
SECI-Wind		80,68,00,000	
SECI-Hybrid		76,47,00,000	
SECI-RTC	9,54,00,000	2,08,28,00,000	
Jharkhand Bijli Vitaran Nigam Ltd	54,00,000	10,00,000	
North Bihar Power Distribution Company Ltd.	10,00,000		
Assam Power Distribution Company Ltd.	1,05,00,000	73,00,000	
Kanti Bijli	0		
Solitaire	7,54,00,000	7,58,00,000	
Ankit Metal			
Hiranmayee Energy Ltd.	9,11,70,00,000	10,72,74,00,000	
Short_term Power			
Adani Enterprises Limited	1,18,79,00,000		
NVVNL	0		
Tata Power Trading Co. Ltd. (Short term)	29,44,00,000		
Power Exchange India Limited	8,27,75,00,000		
Indian Energy Exchange Limited	26,93,65,00,000		
Hindustan Power Exchange	4,17,39,00,000		
Short Term for Non Solar RPO		1,87,63,00,000	
Short Term-Solar			
Swap In	1,70,30,00,000		Refer note-34A of Annual acounts for the year 2023-24
SUB Total	**2,35,06,85,00,000**	**2,04,73,99,00,000**	
Less:Rebate for timely Payment	-25,89,00,000		
Less:Refund from SLDC on account of SCED during FY2023-24	-5,59,00,000.00		Refer Annexure- IC
TOTAL	**2,34,75,37,00,000**	**2,04,73,99,00,000**	
Average Power Purchase rate (paise/Kwh)	**431.45**	**378.82**	
Less: Power purchase cost attributable to sale to other than consumer & licensee @ average energy cost of long_term power purchase for the year 2023-24	-4,33,00,29,000	-24,25,99,45,000	Refer Annexure- IB
Less: Power purchase cost of swap out	-1,70,30,00,000		Refer note-34A of Annual acounts for the year 2023-24
Net Import cost for Own Consumer and Licensee	**2,28,72,06,71,000**	**1,80,47,99,55,000**	
TOTAL POWER PURCHASE COST FOR SALE TO CONSUMERS AND LICENSEE UNDER PURVIEW OF WBERC	**2,28,72,06,71,000**	**1,80,47,99,55,000**	

BIDHANNAGAR SUB DIV. 24 PGS (N) B. N. SAHA NOTARY 23/2002 Govt. of W.B. (INDIA)

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BIDHANNAGAR SUB-DIVN. 24 PGS (N) B. N. SAHA NOTARY 23/2002 Govt. of W.B. (INDIA)

To
West Bengal State Electricity Distribution Company Limited
(A Government of West Bengal Enterprise)
Vidyut Bhawan, Block-DJ, Sector-II
Bidhannagar, Kolkata- 700 091

This is to certify that expenditure incurred by West Bengal State Electricity Distribution Company limited (WBSEDCL) during the financial year 2023-24 on Purchases of Power and Transmission Charges (read with note no-34 in the Annual Audited Accounts of 2023-24) of ₹ 26,64,649 lakh (Rupees Twenty Six Lakh Sixty Four Thousand Six Hundred and Forty Nine Lakh Only) excluding the Rebate received amounting to ₹ 2,598 Lakh (Rupees Two Thousand Five Hundred and Ninety Eight Lakh Only) for timely payments and Security Constraint Economic Dispatch (SCED) Refund amounting to ₹ 559 Lakh (Rupees Five Hundred Fifty Nine Lakh Only) as per details attached in Annexure-A read with the notes therein have been verified by us from the available records maintained at Corporate office and found it in accordance therewith.

For R. Gopal & Associates
Chartered Accountants
FRN: 000846C

R. Gopal & Associates Kolkata Chartered Accountants

CA Sandeep Kumar Sawaria
Partner,
Membership No. 061771
UDIN- 24061771BKDBLJ4020

Place: Kolkata
Date: 11/09/2024

Santanu Sarkar
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

Annexure-A

Statement of Power Purchase Cost, Transmission Charges, Other Charges & Operating Charges during the period from April 2023 to March 2024

Sl No	Particulars	Current Cost	Arrear Cost
		(₹ in Lakhs)	
(A)	Purchases of Power from Different Sources		
1	**Damodar Valley Corporation-Grid**		
	Mejia TPS (V)	13793	-735
	Damodar Valley Corporation-Radial	22057	0
	Raghunathpore TPS(RTPS)	0	584
	Damodar Valley Corporation-Short Term	0	0
2	**National Thermal Power Corporation**		
	Farakka STPS Stg I	152095	16247
	Farakka STPS Stg III	58465	4240
	Kahelgaonl	15175	158
	Kahelgaon II	2152	-2
	BARH TPS I	3122	2
	BARH TPS II	4948	10
	Muzarrpur TPS	11536	-1942
	Nabinagar TPS	3758	-2
	North Karanpura TPS	11914	-2
	Talcher STPS	20361	85
	Daripalli	57541	345
3	**Govt. of Sikkim**	7	0
4	**National Hydro Power Corporation Limited**		
	Teesta V HEP	9883	0
	Rangit HEP	2865	-49
	Teesta Lower Dam Project III	22996	112
	Teesta Lower Dam Project IV	26660	20222
5	**Power Trading Corporation Limited**		
	Chukha HEP	8353	7072
	Kurichu HEP	252	0
	Tala HEP	10727	-108
	Adhunik Power	21101	0
	Jhabua	0	0
	JP Nigrie	0	0
	SPDC J & K	0	0
	PTC India Ltd (Kurichu O&M)	64	0
	Mangdechhu	28855	0
6	**Durgapur Projects Limited**		
	DPL (220/132 kv)	83077	-19703
	DPL-Radial	0	0
7	**West Bengal Power Development Corportaion**		
	Bandel TPS (BTPS)-I	10610	0
	Bandel TPS (BTPS)-II	62390	0
	Santaldih TPS (STPS)	152178	0
	Kolaghat TPS (KTPS)	208258	0
	Bakreswar TPS (Stage -I & II)	269726	0
	Sagardighi TPS (Stage-I)	135637	0
	Sagardighi TPS (Stage-II)	259089	0
8	CESC Ltd	612	0
9	Tata Power Company Ltd	0	
10	Electro Steel Casting Limited	456	0
11	Neora Hydro Limited	270	0
12	Nippon Power	418	0
13	Rashmi Ispat	190	0
14	Kanti Bijlii Utpadan Nigam Ltd	0	0
15	Himadri Chemicals & Industries Ltd	2410	0
16	Rashmi Cement Ltd	597	0
17	Shree Renuka Sugar	816	0
18	Bengal Energy Limited	1980	0
19	Assam Power Distribution Company Ltd	105	0
20	Adani Enterprises Ltd.	11879	0
21	Jharkhand Bijlee Vitaran Nigam Ltd	54	0
22	ABIPL	49	0

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Chief Engineer (Regulation)
Regulation Department
WBSEDCL

Annexure-A

Statement of Power Purchase Cost, Transmission Charges, Other Charges & Operating Charges during the period from April 2023 to March 2024

Sl No	Particulars	Current Cost	Arrear Cost
		(₹ in Lakhs)	
	NTPC Vidyut Vyapar Nigam Ltd.(NVVN)		
23	Bundle Power	20543	0
	NTPC Vidyut Vyapar Nigam Ltd. (Short Term)	0	0
	Tata Power Trading Corporation Limited		
24	Dagachu	16355	345
	Maithon Power Limited	97565	3149
	Tata Power Trading Corporation Limited (Short Term)	2944	7
	Power Exchange		
25	Power Exchange India Limited (PXIL)	82775	0
	India Exchange Exchange Limited (IEX)	269365	0
	Hindustan Power Exchange (HPX)	41739	0
26	Solitaire Industries	754	0
27	Solar Energy Corporation	954	0
28	WBREDA	0	0
29	Hiranmoyee Energy	91170	61
30	North Bihar Power Distribution	10	0
31	Swap In	0	0
32	Deviation Settlement (UI Payable)	2533	-640
	Sub-Total (A)	**2336186**	**29454**
(B)	**TRANSMISSION CHARGES**		
33	Power Grid Corporation India Limited	103666	8460
34	WBSETCL	166543	0
35	Power System Operation Corporation Ltd.	0	4
36	Reimbursement of Transmission Charges to NVVN Ltd.	970	169
	Open Access Charges on Power Purchases		
	National Hydro Power Corporation Limited	0	0
	Power Trading Corporation Limited	0	0
	NTPC Vidyut Vyapar Nigam Ltd	0	0
	Tata Power Trading Corporation Limited	763	0
37	Power Exchange India Limited (PXIL)	2462	0
	India Exchange Exchange Limited (IEX)	12518	0
	Hindustan Power Exchange (HPX)	1500	0
	Adani Enterprises Ltd.	354	0
	Power Grid Corporation India Limited	975	0
	SLDC	1032	0
	Sub-Total (B)	**290783**	**8633**
(C)	**Other Charges**		
38	ERPC Charges	16	0
39	SLDC Charges	2338	-3
40	ERPC Reactive Energy Charges	120	0
	Sub-Total (C)	**2474**	**-3**
(D)	**Operating Lease Charges**		
41	Energy Savings Certificates	278	0
	Sub-Total (D)	**278**	**0**
	TOTAL(A+B+C+D)	**2629721**	**38084**
Total Expenditure (Current Power Purchases Cost + Arrear Cost)		**2667806**	

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To
West Bengal State Electricity Distribution Company Limited
(A Government of West Bengal Enterprise)
Vidyut Bhawan, Block-DJ, Sector-II
Bidhannagar, Kolkata- 700 091

This is to certify that Variable Cost (Average Energy Charge Rate for Long-Term Power) during the financial year 2023-24 as per details attached in Annexure-A have been verified by us from the available records maintained at Corporate office and found it in accordance therewith.

For R. Gopal & Associates
Chartered Accountants
FRN: 000846C

R. Gopal & Associates Kolkata Chartered Accountants

CA Sandeep Kumar Sawaria
Partner,
Membership No. 061771
UDIN- 24061771BKDBLH2477

Place: Kolkata
Date: 11/09/2024

Santanu Saha
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

Annexure-A

Average Energy Charge Rate for Long-Term Power i.r.o FY 2023-24

Long Term Thermal Source	Purchased Energy	Energy Charge and MFCA Charge if appl.	Energy Charge Rate
	MU	Rs in Lakhs	(Paisa/Kwh)
NTPC	7938.876	204884	258.08
DVC	748.070	31875	426.10
DPL	2102.816	49544	235.61
WBPDCL	27912.567	692422	248.07
PTC-ADHUNIK	479.081	21080	440.00
TPTCL MPL	2290.115	64170	280.21
HIRANMAYE ENERGY LIMITED	1679.517	56748	337.88
SCED Refund		(559)	
Over all	**43151.042**	**1120164**	**259.59**

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B. N. SAHA
NOTARY
23/2002
Govt. of W.B. (INDIA)

To
West Bengal State Electricity Distribution Company Limited
(A Government of West Bengal Enterprise)
Vidyut Bhawan, Block-DJ, Sector-II
Bidhannagar, Kolkata- 700 091

This is to certify that Purchase of Power & Transmission Charges as per Note:-34 of the 'Financial Statement for the year 2023-24' of West Bengal State Electricity Distribution Company Limited amounting to Rs. 2664649 Lakhs after considering the income on account of Security Constraint Economic Dispatch (SCED) Refund amounting to Rs. 559 Lakhs. The above have been verified by us from the available records maintained at Corporate Office and found it in accordance therewith.

For R. Gopal & Associates
Chartered Accountants
FRN: 000846C

R. Gopal & Associates Kolkata Chartered Accountants

CA Sandeep Kumar Sawaria
Partner,
Membership No. 061771
UDIN- 24061771BKDBLI8559

Place: Kolkata
Date: 11/09/2024

Santanu Sarkar
Chief Engineer (Regulation)
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Annexure-ID

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To
West Bengal State Electricity Distribution Company Limited
(A Government of West Bengal Enterprise)
Vidyut Bhawan, Block-DJ, Sector-II
Bidhannagar, Kolkata- 700 091

This is to certify that West Bengal State Electricity Distribution Company limited (WBSEDCL) made payment to **IDBI Bank**, Karol Bagh, New Delhi, **UCO Bank**, 5 Parliament Street, New Delhi for bill discounting in respect of NHPC Ltd. as per details attached in Annexure-A have been verified by us from the available records maintained at Corporate office and found the same as correct.

For R. Gopal & Associates
Chartered Accountants
FRN: 000846C

CA Sandeep Kumar Sawaria
Partner,
Membership No. 061771
UDIN- 24061771BKDBLO7938

Place: Kolkata
Date: 11/09/2024

Santanu Sarkar
Chief Engineer (Regulation)
Regulation Department
WBSEDCL

Annexure-A

Particulars of payment made to IDBI Bank, Karol Bagh & UCO Bank, 5 Parliament Street, New Delhi for bill discounting in respect of NHPC LTD. FY: 2023-24

Bank Name	IDBI Bank, Karol Bagh, New Delhi	UCO Bank, 5 Parliament Street, New Delhi	IDBI Bank, Karol Bagh, New Delhi	TOTAL AMOUNT (Rs.)
Particulars	Bill discounting of Rs. 1059755977 (For June 2022 Bill)	Bill discounting of Rs. 1163215434 (For July 2022 Bill)	Bill discounting of Rs. 1112165437 (For Aug-2022 Bill)	
Payment Date	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	
17.04.2023	105975598	105746858	92680453	304402909
16.05.2023	105975598	105746858	92680453	304402909
16.06.2023	105975598	105746858	92680453	304402909
17.07.2023	105975598	105746858	92680453	304402909
16.08.2023	105975598	105746858	92680453	304402909
16.09.2023	0	105746858	92680453	198427311
16.10.2023	0	0	92680453	92680453
Total	529877990	634481148	648763171	1813122309

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Regulation Department
WBSEDCL

Net Energy purchased during the year 2023-24[E_{imp}]

Annexure - II

Name of Power Supply Agency	Energy Purchased		
	Actual Energy Purchased (E_{imp})	Energy purchase as approved by the Commission in the Tariff order for 2023-24 (eimp)	Remarks
	(MKwh)	(MKwh)	
Long Term			
NTPC Limited (FSTPS)	4,143.253	4,860	
NTPC Limited (TSTPS)	711.083	637	
NTPC Limited (Kahelgaon-Stage I&II)	408.714	345	
NTPC Limited (Darlipalli-Stage1)	1,917.521	2,050	
NTPC-BARH (STPS-1 & 2)	142.309		
NTPC Ltd. Muzaffarpur TPS (Kanti Bijli)	219.459		
NTPC-Nabinagar STPS-1	78.885		
North Karanpura TPS-I	317.652		
PTC (India) Limited (Chukha)	274.755	561	
PTC (India) Limited (Kurichhu)	11.062	37	
PTC (India) Limited (Tala)	472.549	1,093	
Damodar Valley Corporation - Grid (Mejia V)	263.522	339	
Damodar Valley Corporation -Radial	484.548	506.100	
Durgapur Projects Limited	2,102.816	3,738	
NHPC Limited (Rangit)	68.594	92	
NHPC Limited (Teesta V)	471.409	641	
NHPC Limited (TLDP III)	406.106	563	
NHPC Limited (TLDP IV)	627.134	709	
NHPC -Solar		125	
Govt. of Sikkim	0.120	0.42	
West Bengal Power Development Corporation Limited	27,912.567	28,121	
WBPDCL Solar		54.24	
West Bengal Renewable Energy Development Agency	-	11.14	
CESC Limited	9.350	14.200	
Electro Steel Casting Limited	18.032	16.57	
Neora Hydro Limited	7.496	9.66	
Nippon Power Limited	11.615	13.04	
Himadri Chemicals & Industries Ltd	80.523	106.75	
Shree Renuka Sugars Ltd.	29.675	7.02	
Rashmi Ispat	8.561	8.03	
Reshmi Cements Ltd	29.261	2.83	
Bengal Energy Limited	69.708	289.68	
Alakananda Balmukund	2.451	4.49	
NVVN Bundle Power(Solar & Thermal)	372.606	351	
TPTCL (Mithon Right Bank)	2,290.115	2,105	
TPTCL (Dagachhu)	409.520	561	
Punatsanchu HEP		501	
PTC (India) Limited (Adhunik)	479.081	722	
PTC (India) Limited (Mangdechhu)	688.663	963	
SECI-Wind		263	
SECI-Hybrid		308	
SECI-RTC	32.323	701	
Jharkhand Bijli Vitaran Nigam Ltd	0.212	0.07	
North Bihar Power Distribution Company Ltd.	0.116		
Assam Power Distribution Company Ltd.	0.984	0.77	
Kanti Bijli			
Solitaire	6.549	6.58	
Ankit Metal			
Hiranmayee Energy Ltd.	1,679.517	1,999	
Short_term Power			
Adani Enterprises Limited	139.264		
NVVNL	-		
Tata Power Trading Co. Ltd. (Short term)	34.095		
Power Exchange India Limited	1,078.753		
Indian Energy Exchange Limited	4,948.860		
Hindustan Power Exchange	546.013		
Short Term for Non Solar RPO		611	
Short Term-Solar			
Swap In	**403.300**		
TOTAL	**54,410.700**	**54,047.59**	
Deviation Settlement Mechanism (DSM) (In)	137.150		
Energy Received for wheeling at 33 KV	149.820	134.000	
Less			
Grid (CTU) loss	730.061	602.690	
STU Transmission Loss	1,488.087	1,473.420	
Deviation Settlement Mechanism (DSM) (Out)	569.638	-	
Sale to persons other than consumer & licensee including Tr. loss	1,668.026	8,436.520	Refer Appendix-I
Power Swap out	435.216	-	
PPSP Pumping Power including Tr. Loss	1,898.470	1,643.570	
Energy wheeled (including loss)	149.820	138.890	
NET IMPORT BY WBSEDCL FOR SALE TO CONSUMERS AND LICENSEE UNDER PURVIEW OF WBERC	**47,758.351**	**41,886.500**	

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Actual fuel and powerpurchase cost admitted against energy sold to own consumer and other licensee has been computed as per the formula given in schedule-7A of the tariff regulations 2011 :

COMPUTATION OF FPPCA FOR THE YEAR 2023-24 **Annexure - III**

			Value	Remarks
t	Norms of Transmission and Distribution loss in % considered for sale of power from licensee to licensee		2.70	
d	Norms of distribution loss in %		16.50	
E_O	Admitted Energy for own consumption by licensee		75.00	
E_{SL}	Energy sale to other licensee in MU		37.033	
E_{SC}	Energy sale to consumer in MU		41553.474	Own Consumer : 41467.509 MU , DPSC :85.965 MU
Fuel-cost (in Rs)	Fuel cost at generation bus of own generating stations = Cost determined on the basis of normative parameters of SHR and oil consumption rate against actual level of energy sent out plus normative auxiliary energy consumption		0.00	
F_{IUC}	Per unit of Fuel Cost at distribution input (in paise) = Fuel-Cost ÷ Actual overall energy available at input of the distribution system which includes power purchase from different services.		0.00	
FC_{Adm_d}	Admitted Fuel Cost for sale to licensee	$= \frac{E_{SL}}{(1 - t \times 0.01)} \times F_{IUC}$	0.00	
FC_{Adm_C} (in Rs)	Admitted Fuel Cost for sale to consumer	$= \frac{E_{SC} + E_O}{(1 - d \times 0.01)} \times F_{IUC}$	0.00	
FC (in Rs)	Fuel cost of own generation as per normative parameters fixed by the Commission or on actual basis in absence of any norm and UHV range as ay be allowed under regulation 4.8, commensurate with actual level of energy sales to own consumers and / or licens	$FC_{Adm\_d} + FC_{Adm\_C}$	**0.00**	
PPC (Rs)	Total cost incurred including the cost for fuel for power purchase from different sources commensurate with actual level of energy sales during the adjustment period.		**228720671000**	Refer Annexure - I
d	Norms of distribution loss in %		16.50	
t	Norms of Transmission and Distribution loss in % considered for sale of power from licensee to		2.70	
E_g	Actual energy sent out in MU from own generating station		1969.146	

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Govt. of W.B. (INDIA) ★ BIDHANNAGAR SUB-DIVN. 24 PGS (N) ★ B. N. SAHA NOTARY 23/2002

Actual fuel and powerpurchase cost admitted against energy sold to own consumer and other licensee has been computed as per the formula given in schedule-7A of the tariff regulations 2011 :

COMPUTATION OF FPPCA FOR THE YEAR 2023-24 **Annexure - III**

				Annexure - III Contd
E	excess amount of auxiliary energy consumption in MU		0.00	
E_P	Total energy purchased in MU	Schedule purchase + Swap in power +UI(in)+Power received for wheeling - UI(out) -CTUloss - STU loss - swap out-sale to persons other than consumer & licensee - PPSP pumping power (normative)	47,758.351	
E_O	Admitted Energy for own consumption by licensee		75.00	
E_{SC}	Energy sale to consumer in MU		41553.474	
E_{SL}	Energy sale to other licensee in MU		37.033	
E_{Adm}	Admitted Amount of Energy entitled for purchase	$= \frac{E_{SC} + E_O}{(1 - d \times 0.01)} + \frac{E_{SL}}{(1 - t \times 0.01)} - E - E_g$	47923.375	
E_E	Excess energy purchased	$E_P - E_{Adm}$	-165.024	
EP_{Avg}	Average cost of power purchase (paise/Kwh)		431.45	
C_D (in Rs.)	Cost disallowable by the Commission in terms of Regulation 2.8.6.1 of Tariff Regulations 2011:	$= E_E \times EP_{AVG}$	0	
A (in Rs.)	Adjustment, if any, to be made in the current period to account for any excess / shortfall in recovery of fuel and power purchase cost in the past adjustment period based on directions / orders of the Commission.		**3009400000**	Prior period adjustment considered: (Refer para 17 of the application)
FPPC (In Rs.)	Re-determined fuel and power purchase cost against application of FPPCA.	{FC + (PPC – C_D) +(± A)}	**231730071000**	

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Computation of benefit for saving in distribution loss

Sl No	Particulars	Value	Remarks
1	Admitted Amount of Energy entitled for purchase (MU)	47923.375	Ref E_{adm} of Annexure-III
2	Total energy purchased in MU	47758.351	Ref E_P of Annexure-III
3	Energy saved due to Distribution loss Below normative	165.024	Refer para 20 of the application
4	Average cost of power purchase (paise/Kwh)	431.45	Ref EP_{AVG} of Annexure-III
5	Cost of energy saved (Rs)	712000000	Refer para 19 of the application

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