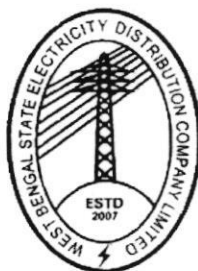


**WEST BENGAL  
STATE ELECTRICITY  
DISTRIBUTION COMPANY LIMITED**

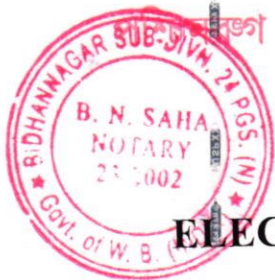


***WBSEDCL***

**FPPCA (Fuel and Power Purchase Cost Adjustment)  
Application for the year 2021-22**

**Submitted to the**

**HON'BLE WEST BENGAL ELECTRICITY  
REGULATORY COMMISSION**



पश्चिम बंगाल WEST BENGAL

64AB



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 2021-22 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 Bhawan  
North Block, Gr. Floor  
Bidhannagar, Kolkata  
West Bengal

17 NOV 2022

*Sudipta Mukhopadhyay*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL

157265

W.B.S.E.D.C.L.  
Vidyut Bhawan, Salt Lake  
Kolkata - 700 091

NAME \_\_\_\_\_  
ADD. \_\_\_\_\_  
Re. \_\_\_\_\_  
- 7 JAN 2022  
SURANJAN MUKHERJEE  
Licensed Stereo Vendor  
C. C. Club  
209, K. S. P. Road, KOL

• 7 JAN 2022

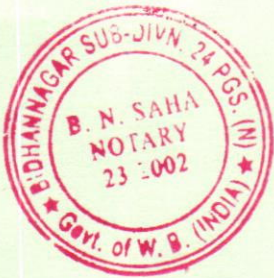
• 7 JAN 2022



NOTARY  
Blank Stamp for  
Notary Public  
Kolkata

17 NOV 2022





## BEFORE THE NOTARY PUBLIC

### AFFIDAVIT



I, Sri Sudipta Mukhopadhyay, son of Late Deb Kumar Mukhopadhyay, aged 58 years by faith Hindu residing at 2 Kundan Bye Lane, Liluah Howrah – 711204 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 25 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

Deponent

Date:

*Sudipta Mukhopadhyay*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL

IDENTIFIED BY ME

ADVOCATE

Solemnly Affirmed  
&  
Declared Before me  
on Identification of Advocate

B. N. SAHA  
Notary

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

17 NOV 2022



**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 2021-22 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 2021-22 on 28/03/2022. 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 The Annual Report and Annual Accounts for the year 2021-22 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 27.05.2022 and CAG audit has been completed on 28.10.2022.



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 2021-22.

5. That to compute the Fuel and Power Purchase Cost (FPPC) for the year 2021-22, 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 2021-22.
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 2021-22 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 2021-22 is discussed 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 2021-22. WBSEDCL had also purchased power through grid from Mejia Thermal Power Station (Unit V) [In short "Mejia V"] and Raghunathpur Thermal Power Station [In short "RTPS"] of DVC during the year 2021-22 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 2021-22 are given below:

| Name of the Power Station | Energy MKWH     | Costs Rs. Lakhs |
|---------------------------|-----------------|-----------------|
| DVC-Radial                | 506.096         | 22882           |
| Mejia V                   | 245.586         | 12520           |
| RTPS                      | 715.353         | 42866           |
| <b>DVC Total</b>          | <b>1467.035</b> | <b>78268</b>    |

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.



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

As per Government order dated 26.12.2018 and 31.12.2018 vide memo no 328/PO/O/C-IV/1E-60/13(Pt-VA) and 333-PO/O/C-IV/1E-60/13(Pt-VIII) respectively and subsequent WBERC order dated 31/12/2018, the entire distribution business and activities undertaken by erstwhile DPL along with all associated assets and liabilities was transferred to WBSEDCL with effect from 01.01.2019. WBSEDCL purchased entire power from unit 7 and unit 8 of the Thermal Power Stations of DPL during the year 2021-22 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 2021-22 are given hereunder:

| Name of the Power Station | Energy MKWH     | Costs Rs. Lakhs |
|---------------------------|-----------------|-----------------|
| DPL(unit 7 & 8)           | 2272.566        | 97728           |
| <b>DPL Total</b>          | <b>2272.566</b> | <b>97728</b>    |

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 (WBPDC):**

WBSEDCL had purchased power from all the Thermal Power Stations (TPS) of WBPDC at Bandel, Kolaghat, Sagardighi, Bakreswar and Santaldih during the year 2021-22 at the rate determined by WBERC for the year 2021-22. The energy purchased by WBSEDCL from different power stations of WBPDC during the year 2021-22 and the associated cost as per Annual Accounts of WBSEDCL for the year 2021-22 are given hereunder:

| Name of the Power Station | Energy MKWH      | Costs Rs. Lakhs |
|---------------------------|------------------|-----------------|
| Kolaghat TPS(KTPS)        | 3772.722         | 151453          |
| Bakreswar TPS (Stg-I&II)  | 7588.411         | 252094          |
| Bandel TPS(BTPS-I)        | 278.097          | 13559           |
| Bandel TPS(BTPS-II)       | 1281.373         | 45646           |
| Santaldih TPS(STPS)       | 3578.424         | 127216          |
| Sagardighi TPS(Stg-I)     | 4015.397         | 112936          |
| Sagardighi TPS(Stg-II)    | 6969.847         | 232782          |
| <b>WBPDC Total</b>        | <b>27484.271</b> | <b>935686</b>   |



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



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

WBSEDCL purchased power from Farakka, Kahelgaon, Talcher, Darlipalli Super Thermal Power Station (in short "STPS") of NTPC during the year 2021-22 at the rate determined by CERC. The purchase of energy by WBSEDCL from NTPC's different power stations during the year 2021-22 along with the associated costs are given hereunder:

| Name of the Power Station | Energy MKWH     | Costs Rs. Lakhs |
|---------------------------|-----------------|-----------------|
| Farakka STPS StgI         | 2369.976        | 100827          |
| Farakka STPS Stg III      | 1029.778        | 49880           |
| Talcher STPS              | 631.178         | 17718           |
| Kahelgaon Stage I STPS    | 333.194         | 12329           |
| Darlipalli STPS           | 1529.842        | 45244           |
| <b>NTPC Total</b>         | <b>5893.968</b> | <b>225998</b>   |

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

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

During the year 2021-22, 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 2021-22 along with the associated costs are given hereunder:

| Name of the Power Station         | Energy MKWH     | Costs Rs. Lakhs |
|-----------------------------------|-----------------|-----------------|
| Teesta-V HEP                      | 623.805         | 14098           |
| Rangit HEP                        | 93.031          | 4842            |
| Teesta Lower Dam Project- III HEP | 588.833         | 30263           |
| Teesta Lower Dam Project- IV HEP  | 724.541         | 35102           |
| <b>NHPC Total</b>                 | <b>2030.211</b> | <b>84305</b>    |

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

*Sudipto Choudhary*

Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



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

During the year 2021-22, WBSEDCL had purchased power from different Hydel Power Station (in short "HEP") viz. Chukha HEP, Kurichhu HEP, Tala HEP and Baglihar HEP. WBSEDCL had also purchased thermal power from Adhunik Power, Jhabua, Jaiprakash and hydro power from Mangdechhu through PTC as per rate of respective Power Purchase Agreement(PPA).

The purchase of energy during the year 2021-22 by WBSEDCL through PTC from Chukha HEP, Kurichhu HEP, Tala HEP, Baglihar (SPDC) HEP, Adhunik Power, Jhabua, Jaiprakash and Mangdechhu and the associated costs are given hereunder:

| Name of the Power Station | Energy MKWH     | Costs Rs. Lakhs |
|---------------------------|-----------------|-----------------|
| Chukha HEP                | 581.483         | 13965           |
| Kurichu HEP               | 23.949          | 604             |
| Tala HEP                  | 1058.951        | 22879           |
| SPDC                      | 172.013         | 6404            |
| Adhunik                   | 721.793         | 36068           |
| Jhabua                    | 463.981         | 17173           |
| Jaiprakash(JP Nigrie)     | 486.912         | 20825           |
| Mangdechhu                | 899.415         | 37685           |
| <b>PTC Total</b>          | <b>4408.497</b> | <b>155603</b>   |

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

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

During the year 2021-22, WBSEDCL had purchased thermal power from Maithon Right Bank Thermal Power Station (in short "MRBTPS") through TPTCL at CERC determined tariff. WBSEDCL has also purchase hydro power from Dagachhu HEP through medium –term contract as per rate of the PPA.

The purchase of energy during the year 2021-22 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. Lakhs |
|---------------------------|-----------------|-----------------|
| MRBTPS                    | 2044.548        | 85077           |
| Dagachhu HEP              | 586.707         | 21806           |
| <b>TPTCL Total</b>        | <b>2631.256</b> | <b>106883</b>   |

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



- 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 2021-22 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               | 22.863                 | 0.229                  | 22.634               |
| Teesta Canal Fall, Hydel PS-I             | EHV               | 26.232                 | 0.262                  | 25.970               |
| Teesta Canal Fall, Hydel PS-II            | EHV               | 24.222                 | 0.242                  | 23.980               |
| Teesta Canal Fall, Hydel PS-III           | EHV               | 22.013                 | 0.220                  | 21.792               |
| Richington Hydel PS                       | HV                | 5.468                  | 0.055                  | 5.413                |
| Little Rangit Hydel PS                    | HV                | 5.239                  | 0.052                  | 5.186                |
| Mangpoo Kalikhola Hydel PS                | HV                | 6.650                  | 0.066                  | 6.583                |
| Sidrapong Hydel PS                        | HV                | 0.183                  | 0.002                  | 0.181                |
| Messanjore Hydel PS                       | HV                | 10.082                 | 0.101                  | 9.981                |
| Fazi Hydel PS                             | HV                | 5.538                  | 0.055                  | 5.483                |
| <b>Total Mini/Micro Hydel Generation:</b> |                   | <b>128.489</b>         | <b>1.285</b>           | <b>127.204</b>       |

Besides own generation of WBSEDCL from the above stated mini hydel power stations, WBSEDCL had also purchased following quantum of power from different Co-generation / Renewable sources during the year 2021-22 as per rate of respective PPA. The quantum of energy purchased by WBSEDCL from different Co-generation / Renewable sources of energy during the year 2021-22 along with the associated cost are given hereunder:

| Name of the Renewable & Non-conventional agencies | Energy         | Cost         |
|---|----------------|--------------|
|   | (MKWH)         | (Rs.Lakhs)   |
| Electro Steel Casting Limited                     | 16.568         | 419          |
| Neora Hydro Limited                               | 9.662          | 348          |
| Nippon Power Limited                              | 13.035         | 469          |
| Himadri Chemicals & Industries Ltd                | 52.143         | 1692         |
| Shree Renuka Sugars Ltd.                          | 7.024          | 193          |
| Rashmi Ispat                                      | 8.026          | 178          |
| Reshmi Cements Ltd                                | 2.828          | 58           |
| Bengal Energy Limited                             | 289.676        | 8587         |
| Concast Bengal Ind. Ltd.                          | 0.000          | 0            |
| NVVN ( Bundle Power with 63.865 MU Solar Power )  | 350.451        | 17956        |
| Solitaire Industries                              | 6.578          | 758          |
| <b>Total :</b>                                    | <b>755.991</b> | <b>30658</b> |



In this context, this is to state that Concast Bengal Ind. Ltd could not supply power from their generating stations.

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 2021-22, 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 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 2021-22.

Quantum of short term power purchased through traders and power exchanges during the year 2021-22 by WBSEDCL along with the associated cost are stated hereunder.

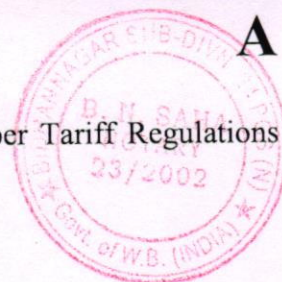
| Name of the Traders / power exchanges from which short term power purchased | Energy MKWH    | Costs Rs. Lakhs |
|---|----------------|-----------------|
| Power Exchange India Ltd. (PXIL)  | 4.521          | 508             |
| Indian Energy Exchange Ltd. (IEX)   | 831.709        | 35276           |
| <b>Total</b>  | <b>836.229</b> | <b>35784</b>    |

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

Further, Rs.4057 lakh were paid as Short Term Open Access charge for purchase of above stated short term power in 2021-22. This amount has not been considered in this application for FPPCA for the year 2021-22 as such cost / charge will be considered in the application for Annual Performance Review (in short "APR") for the year 2021-22



as it is transmission charge in nature and a fixed cost item as per Tariff Regulations 2011 as amended.



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

During the year 2021-22 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<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 14.201         | 929                |

**k) Purchase of power from Assam Power :**

During the year 2021-22 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<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 0.771          | 68                 |

**l) Purchase of power from JBVNL :**

During the year 2021-22 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<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 0.074          | 10                 |

**m) Purchase of power from Kanti Bijli Utpadan Nigam Limited (KBUNL):**

During the year 2021-22, the quantum of energy drawn by WBSEDCL from KBUNL (at CERC determined tariff) along with associated cost are given hereunder:

| Energy<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 219.983        | 13594              |



**n) Purchase of power from HMEL :**

During the year 2021-22 the quantum of energy drawn by WBSEDCL from HMEL (at WBERC determined tariff) along with associated cost are given hereunder:

| Energy<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 1002.661       | 66376              |

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

During the year 2021-22 the quantum of energy drawn by WBSEDCL from Govt. of Sikkim along with associated cost are given hereunder:

| Energy<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 0.424          | 23                 |

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

During the year 2021-22 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 are given hereunder:

| Energy<br>MKWH | Costs<br>Rs. Lakhs |
|----------------|--------------------|
| 433.202        | 14905              |

9. WBSEDCL's liability on account of purchase of power from different power supply agencies during the year 2021-22 have been indicated in **Annexure-I**.

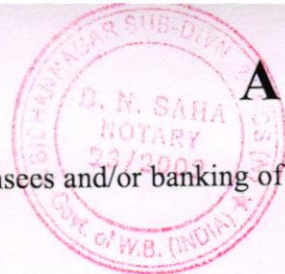
**10. Power Purchase Cost against Energy Sold to Other than Licensee & Consumer :-**

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 years depending on economic activity. During power surplus situation when consumer 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.

(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 618282 lakh for the year 2021-22, 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 2021-22 comes to Rs 172912 lakh (7688.072 MU x 224.91 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.281559 lakh
- iv) Total saving from this sale Rs. 108647 lakh (i.e. Rs.281559 lakh – Rs.172912 lakh)
- v) Net benefit to consumers (considering 50% gain sharing) is Rs 54324 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 back 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.

Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



For the year 2021-22, 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<br>MKWH | Proportionate power purchase cost @ 224.91<br>Paise/Kwh |
|----------------|---|
| MKWH           | Rs. Lakhs   |
| 7688.072       | 172912  |

11. **Timely Payment Rebate** : Rebate for timely payment of Power Purchase bills for the year 2021-22 is Rs. 2503 lakh, refer Appendix-I .
12. **Security Constraint Economic Despatch (SCED)**: WBSEDCL has received of Rs 1075 lakh from SLDC on account of SCED during the year 2021-22 (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 from central sector generating stations for the year 2021-22 was 543.525 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 2021-22 was 333.940 MU whereas STU loss in the system is considered at normative level of 3.4% on grid power.
14. During the year 2021-22 actual sent-out generation from own generating stations of WBSEDCL has become 1827.377 MU which has been considered in the computation of FPPCA for the year 2021-22. 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               | 268.309                | 2.683                  | 265.626              |                   |
| Jaldhaka Hydel PSI                 | EHV               | 155.331                | 1.553                  | 153.777              |                   |
| Total Mini/Micro Hydel Generation: | EHV/HV            | 128.489                | 1.285                  | 127.204              | Refer para. 7 (h) |



| Name of the generating station        | Injection Voltage | Gross Generation in MU | Aux. Consumption in MU | Net Generation in MU | Remarks |
|---------------------------------------|-------------------|------------------------|------------------------|----------------------|---------|
| Total Hydel Generation:               |                   | 552.128                | 5.521                  | 546.607              |         |
| Purulia Pumped Storage Project (PPSP) | EHV               | 1183.400               | 20.118                 | 1163.282             |         |
| Solar Project                         | HV                | 91.849                 | 0.00                   | 91.849               |         |
| <b>Total :</b>                        |                   | <b>1,827.377</b>       | <b>25.639</b>          | <b>1,801.738</b>     |         |

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

The gross generation of PPSP in the year 2021-22 was 1183.400 MU. Considering the normative cycle efficiency of PPSP at 74%, the energy required for pumping at PPSP during the year 2021-22 was 1599.189 MU  $[1183.400 / 0.74]$ .

Considering normative transmission loss @ 3.4% as per Tariff Regulations 2011, as amended, the input energy for pumping power of PPSP for the year 2021-22 becomes 1655.475 MU and the same is considered in this FPPCA application for energy balance for the year 2021-22.

16. The energy balance based on actual power purchase, own sent out generation and sale of energy in respect of WBSEDCL for the year 2021-22 is given below which has been considered in the computation of FPPCA for the year 2021-22.

| Energy Balance |   |                  |  |
|----------------|---|------------------|--|
| Sl No          | Particulars   | 2021-22          | Remarks                                  |
|                |   | Energy in MU     |  |
| 1              | Own sent out at EHV   | 1677.061         |  |
| 2              | Gross purchase at EHV   | 48496.571        |  |
| 3              | Power Swap in at EHV  | 0.000            |  |
| 4              | Power drawal under DSM  | 433.202          |  |
| 5              | CTU Grid loss   | -543.525         |  |
| 6              | <b>Energy Available at EHV (1+2+3+4-5)</b>  | <b>50063.309</b> |  |
| 7              | Normative STU Transmission Loss   | 1702.153         |  |
| 8              | Sale to licensee inclusive transmission loss                                      | 54.094           |  |
| 9              | PPSP pumping power from EHV inclusive transmission loss                           | 1655.475         | Refer para 15 on pumping energy for PPSP |
| 10             | Energy sale to other than licensee and consumer in MU inclusive transmission loss | 7688.072         |  |
| 11             | Swap Power out  | 0.000            |  |



| Energy Balance |  |                  |   |
|----------------|--|------------------|---|
| Sl No          | Particulars  | 2021-22          | Remarks   |
|                |  | Energy in MU     |   |
| 12             | Power Out under DSM inclusive transmission loss                              | 333.940          |   |
| 13             | Own sent out at 33 KV and Below  | 124.677          | Net own sent out<br>(1677.061+124.677)=<br>1801.738 MU          |
| 14             | Gross purchase at 33 KV and Below  | 521.566          |   |
| 15             | Energy Received for wheeling at 33 KV  | 138.937          |   |
| 16             | <b>Energy available at WBSEDCL System<br/>(16=6-7-8-9-10-11-12+13+14+15)</b> | <b>39414.756</b> |   |
| 17             | Unit wheeled in MU (including addl. Unit allowed)                            | 138.937          |   |
| 18             | Energy sale to own consumer & DPSC in MU                                     | 33248.934        | Including 26.380 MU<br>sale to DPSC from<br>Distribution system |
| 19             | Own consumption by WBSEDCL   | 73.000           |   |
| 20             | Un-utilized Units  | 5953.885         |   |

17. Actual purchase of power by WBSEDCL for sale to own consumer and licensee during the year 2021-22 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 and also excess provision written back. Finally Rs.23 lakh was adjusted during the year 2021-22 by WBSEDCL to DVC on account of prior period.
- ii.) NTPC Limited has raised bills and credit notes on account of revision of energy charge rate in the year 2021-22 for prior period and also excess provision written back. Finally, Rs. 5521 lakh becomes payable/paid during the year 2021-22 by WBSEDCL to NTPC on account of prior period.
- iii.) NHPC Limited has raised supplementary bills for the period 2015-18 i.r.o TLDP-III and also raised supplementary bill for the period 2019-21 i.r.o Rangit and Teesta-V against revised REA, effective tax, ERLDC refund and unrecovered shortfall. Finally, Rs.15826 lakh becomes receivable /received during the year 2021-22 by WBSEDCL from NHPC on account of prior period. Since Hon'ble Commission in its order dated 21.09.2022 has already accorded approval of bill discounting for payment of arrear amount of TLDP III & TLDP

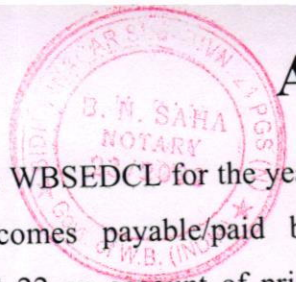


IV to NHPC Ltd giving cognizance of (-) Rs15712 lakh as refundable arrear amount (refer para 2.(d) of the said order), hence refundable arrear amount becomes Rs 114 lakh, [Rs 15826 lakh – Rs 15712 Lakh], during the year 2021-22 as receivable by WBSEDCL from NHPC on account of prior period.

- iv.) PTC India Limited has raised bills on account of change of law i.r.o Adhunik Power. Finally Rs.10030 lakh becomes payable/paid by WBSEDCL to PTC India Ltd during the year 2021-22 on account of prior period.
- v.) Tata Power Trading Company Limited (TPTCL) has raised bills/credit notes on account of ERLDC fees and charges for the year 2014-19, RRAS, Tariff revision of MPL, performance linked incentive (PLI) for MPL for the year 2019-20 and RLDC charges i.r.o Dagachhu for the year 2019-20. Finally Rs.4150 lakh becomes receivable/received during the year 2021-22 by WBSEDCL from TPTCL on account of prior period.
- vi.) DPL has raised bills related to adjustment of prior period amounting to Rs.6546 lakh on account of revision of Tariff as per order dated 16.07.2021 i.r.o DPL unit 7 and unit 8. The same has been receivable /received by WBSEDCL during the year 2021-22.
- vii.) HMEL has raised bills related to adjustment of prior period amounting to Rs.174 lakh on account of revision of tariff as per tariff order dated 31.05.21 and 25.08.2021. The same has been receivable /received by WBSEDCL during the year 2021-22.
- viii.) NVVNL Bundle has raised bills on account of incentive for the year 2020-21 and also excess provision i.r.o prior period has been written back. Finally, Rs.99 lakh was adjusted during the year 2021-22 by WBSEDCL i.r.o NVVNL on account of prior period.
- ix.) KBUNL has raised bills/credit notes on account of revision of energy charge in the year 2021-22 for prior period. Finally Rs.28 lakh becomes receivable /received during the year 2021-22 by WBSEDCL from KBUNL.
- x.) WBPDCCL has raised bills/credit note on account of arrear capacity charge and tariff revision as per tariff order dated 14.07.2021, 08.10.2021 and 06.05.2022 and also provision against MFCA for the months February'2019 and March'2019 has been written back. Finally Rs.85098 lakh was adjusted by WBSEDCL during the year 2021-22.

*Sudipta Chakraborty*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



-  **A**
- xi.) Govt. of Sikkim has raised bill against sale of power to WBSEDCL for the year 2020-21 in FY 2021-22. Finally Rs.22 lakh becomes payable/paid by WBSEDCL to Govt. of Sikkim during the year 2021-22 on account of prior period.
  - xii.) WBSEDCL has received refund of Rs 1105 lakh from SLDC on account of SCED for arrear of previous year (please refer Annexure-IC). This amount may be considered for adjustment with prior period power purchase cost.
  - xiii.) 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 lower than normative for the period 2021-22.

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. 15736.59 crore. The computation of Fuel & Power Purchase Cost (FPPC) for the year 2021-22 has been given in **Annexure-III**.

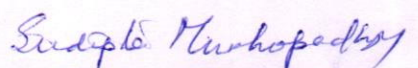
**20. Saving in Distribution Loss and gain sharing :**

The saving on account of improvement in distribution loss w.r.t norms during the year 2021-22 is 1116.308 MU. In terms of paragraph C of the Schedule 9B to the tariff regulation, gain is required to be shared between the Distribution Licensee & consumers at the ratio 75:25. The saving on this account comes to Rs 416.37 Crore (Computation is enclosed as Annexure-IIIB). Thus, 25% of above savings i.e Rs 104.09 Crore may be passed on to the consumers & other Licensees and balance 75% of the gain i.e Rs 312.28 Crore may be released to WBSEDCL along-with FPPC amount of Rs 15736.59 Crore as referred under para (19) above.

21. Thus the Net claim amount considering the gain sharing comes to Rs. 16,048.87 Crore (Rs. 15736.59 Crore + 312.28Crore).

**22. Payment of arrear to NHPC Ltd. through Bill discounting as per Order dated 21.09.2022:**

WBSEDCL has paid 05 (five) nos monthly installments @ Rs 2700 lakhs starting from 15/11/2021 to SBI (NHPC Banker) as per Bill discounting arrangement against total arrear amount of Rs 615.52 Crore of TLDP III & IV of NHPC Ltd . As per direction of Hon'ble

  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



Commission vide its order dated 21/09/2022, details of installments paid during the year 2021-22 duly certified by Auditor's Certificate is enclosed as Annexure-ID. In addition, under such bill discounting arrangement, WBSEDCL has also paid Rs 52 lakh directly to NHPC (refer para 2(f) of the said order)

Therefore, as per order of Hon'ble Commission dated 21/09/2022, Rs 13552 lakh may be allowed to WBSEDCL along-with FPPC amount of Rs 15736.59 Crore as referred under para (19) above.

23. That pursuant to the above order, the net FPPCA for 2021-22 shall be as follows:

| Sl no | Particulars  | Amount (Rs in Crore) |
|-------|--|----------------------|
| 1     | FPPCA claim after considering gain sharing   | 16,048..87           |
| 2     | Add: Installment paid to SBI (NHPC banker) as per bill discounting arrangement along with directly payment of 0.52 Crore | 135.52               |
| 3     | Net FPPCA Claim (4 = 1+2)  | 16,184.39            |

24. Since FPPCA application for the year 2020-21 has been submitted before issuance of the above-stated order dated 21/09/2022, Rs 65419 lakh is considered as payable to NHPC by WBSEDCL in the above FPPCA application for 2020-21 on account of prior period i.e. TLDP-III and TLDP-IV, (Refer 17 (iii) of FPPCA application for 2020-21), and Rs 11845 lakh on account of current period, (Amount Rs 11845 lakh is included in Rs 34863 lakhs claimed against TLDP IV in paragraph 7(e) of FPPCA application for 2020-21). Now in this changed situation after issuance of above-stated order dated 21/09/2022 of Hon'ble Commission, it is being requested not to consider Rs 772.64 Crore [ Rs 654.19 crore + Rs 118.45 Crore], during passing FPPCA application for 2020-21 as submitted through 2<sup>nd</sup> supplementary application dated 21.10.2022.

25. Hence Total FPPCA amount for 2021-22 becomes Rs 16184.39 Crore considering amount as arrived in paragraph (23).

#### PRAYER TO THE HON'BLE COMMISSION:

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

1. Approve Fuel and Power Purchase Cost (FPPC) of Rs. 16184.39 Crore for the year 2021-22 in respect of WBSEDCL.
2. Pass an order as the Hon'ble Commission may deem fit.

*Sudipti Mukhopadhyay*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



## Computation of cost of power purchase during the year 2021-22 [ PPC ]

| Name of Power Supply Agency   | Energy Purchase                  |   | Remarks            |
|---|----------------------------------|---|--------------------|
|   | Actual Power Purchase cost (PPC) | Power purchase cost as approved by the Commission in the Tariff order for 2021-22 (ppc) |                    |
|   | (Rs)                             | (Rs)  |                    |
| <b>Long Term</b>  |                                  |   |                    |
| NTPC Limited (FSTPS)  | 15,070,700,000                   | 17,423,817,000  |                    |
| NTPC Limited (TSTPS)  | 1,771,800,000                    | 1,838,249,000   |                    |
| NTPC Limited (Kahelgaon-Stage1)   | 1,232,900,000                    | 1,099,874,000   |                    |
| NTPC Limited (Darlipalli-Stage1)  | 4,524,400,000                    | 6,635,125,000   |                    |
| PTC (India) Limited (Chukha)  | 1,396,500,000                    | 1,336,927,000   |                    |
| PTC (India) Limited (Kurichhu)  | 60,400,000                       | 74,262,000  |                    |
| PTC (India) Limited (Tala )   | 2,287,900,000                    | 2,430,359,000   |                    |
| Damodar Valley Corporation - Grid   | 5,538,600,000                    | 8,034,985,000   |                    |
| Damodar Valley Corporation -Radial  | 2,288,200,000                    | 1,240,028,000   |                    |
| Durgapur Projects Limited   | 9,772,800,000                    | 11,871,123,000  |                    |
| North Karanpura   |                                  | 244,449,000   |                    |
| NHPC Limited (Rangeet)  | 484,200,000                      | 339,111,000   |                    |
| NHPC Limited (Teesta V)   | 1,409,800,000                    | 1,374,782,000   |                    |
| NHPC Limited (TLDP III)   | 3,026,300,000                    | 3,198,515,000   |                    |
| NHPC Limited (TLDP IV)  | 3,510,200,000                    | 3,035,937,000   |                    |
| Govt. of Sikkim   | 2,300,000.0                      | 2,472,000   |                    |
| West Bengal Power Development Corporation Limited (lease rental)  | 0                                | 75,496,523,000  |                    |
| West Bengal Power Development Corporation Limited   | 93,568,600,000                   |   |                    |
| West Bengal Renewable Energy Development Agency   | 0                                | 176,000   |                    |
| CESC Limited  | 92,900,000                       | 55,349,000  |                    |
| Tata Power Company Limited (Haldia)   | 0                                | 0   |                    |
| Electro Steel Casting Limited   | 41,900,000                       | 71,227,000  |                    |
| Neora Hydro Limited   | 34,800,000                       | 26,554,000  |                    |
| Nippon Power Limited  | 46,900,000                       | 20,020,000  |                    |
| Himadri Chemicals & Industries Ltd  | 169,200,000                      | 115,076,000   |                    |
| Shree Renuka Sugars Ltd.  | 19,300,000                       | 0   |                    |
| Rashmi Ispat  | 17,800,000                       | 18,293,000  |                    |
| Reshmi Cements Ltd  | 5,800,000                        | 70,011,000  |                    |
| Bengal Energy Limited   | 858,700,000                      | 719,779,000   |                    |
| Concast Bengal Ind. Ltd.  | 0                                | 15,318,000  |                    |
| NVVN (Solar Bundle Power)   | 1,795,600,000                    | 1,951,119,000   |                    |
| TPTCL (Mithon Right Bank)   | 8,507,700,000                    | 7,780,031,000   |                    |
| TPTCL (Dagachhu)  | 2,180,600,000                    | 1,902,121,000   |                    |
| PTC (India) Limited (Baglihar HEP, SPDC )   | 640,400,000                      | 2,076,353,000   |                    |
| PTC (India) Limited (Adhunik )  | 3,606,800,000                    | 2,140,092,000   |                    |
| PTC (India) Limited (Jhabua )   | 1,717,300,000                    | 1,655,863,000   |                    |
| PTC (India) Limited (Jaiprakash )   | 2,082,500,000                    | 1,655,863,000   |                    |
| PTC (India) Limited (Mangdechhu )   | 3,768,500,000                    | 2,136,900,000   |                    |
| JHARKHAND BIJLI   | 1,000,000                        | 1,728,000   |                    |
| Assam Power   | 6,800,000                        | 5,734,000   |                    |
| Kanti Bijli   | 1,359,400,000                    | 1,355,457,000   |                    |
| Solitaire   | 75,800,000                       | 80,408,000  |                    |
| Ankit Metal   |                                  | 3,570,000   |                    |
| Hiranmayee  | 6,637,600,000                    | 10,461,000,000  |                    |
| <b>Short term Power</b>   |                                  |   |                    |
| PTC (India) Limited   | 0                                |   |                    |
| DVC short term  | 0                                |   |                    |
| DB Power  | 0                                |   |                    |
| JSWPTC  | 0                                |   |                    |
| NVVNL   | 0                                |   |                    |
| Tata Power Trading Co. Ltd. (Short term)  | 0                                |   |                    |
| Power Exchange India Limited  | 50,800,000                       |   |                    |
| Indian Energy Exchange Limited  | 3,527,600,000                    |   |                    |
| <b>Short Term-Non solar</b>   |                                  | 6,168,677,000   |                    |
| <b>Short Term-Solar</b>   |                                  | 2,417,186,000   |                    |
| <b>Swap In</b>  |                                  |   |                    |
| <b>SUB Total</b>  | 183,191,300,000                  | 178,580,442,000   |                    |
| Less: Rebate for timely Payment   | -250,300,000                     |   |                    |
| Less: Refund from SLDC on account of SCED during FY2021-22  | -107,500,000                     |   | Refer Annexure- IC |
| <b>TOTAL</b>  | 182,833,500,000                  | 178,580,442,000   |                    |
| <b>Average Power Purchase rate ( paise/Kwh)</b>   | 372.99                           | 341.28  |                    |
| Less: Power purchase cost attributable to sale to other than consumer & licensee @ average energy cost of long term power purchase for the year 2021-22 | -17,291,200,000                  | -33,876,718,000   | Refer Annexure- IB |
| Less: Power purchase cost of swap out   |                                  |   |                    |
| <b>Net Import cost for Own Consumer and Licensee</b>  | 165,542,300,000                  | 144,703,724,000   |                    |
| <b>TOTAL POWER PURCHASE COST FOR SALE TO CONSUMERS AND LICENSEE UNDER PURVIEW OF WBERC</b>  | 165,542,300,000                  | 144,703,724,000   |                    |

Signed: *Shudipto Mukhopadhyay*  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL



Annexure - 1A



**J Gupta & Co LLP**  
Chartered Accountants

YMCA Building  
Mezzanine Floor  
25, Jawaharlal Nehru Road  
Kolkata - 700 087  
☎ : (033) 40074539  
Email : jgupta.co.ca@gmail.com

TO WHOM IT MAY CONCERN



This is to certify that expenditure incurred by West Bengal State Electricity Distribution Company limited (WBSEDCL) during the financial year 2021-22 on Purchases of Power and Transmission Charges (read with note no-34 in the Annual Audited Accounts of 2021-22) of Rs. 20,14,779 lakhs (Twenty Lakhs Twelve Thousand Two Hundred and Thirty Six Lakhs Only) excluding the Rebate received amounting to Rs 2,543 Lakhs (Two Thousand Five Hundred and Forty Three Lakhs Only) for timely payments 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 the same as correct.

For J Gupta & Co LLP  
Chartered Accountants  
FRN: 314010E/E300029  
LLP No. AAM-2652  
UDIN:- 22012208AMVRWH9433



CA H.K. Datta  
Partner,  
Membership No. 012208  
Place: Kolkata  
Date: 14<sup>th</sup> July, 2022.

*Sudipto Chakraborty*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



Annexure-A

Statement of Purchase of Power cost, transmission Charges, Other Charges & Operating Charges during the period April 2021 to March 2022

| Sl No | Particulars   | Current Cost   | Arrear Cost    |
|-------|---|----------------|----------------|
|       |   | (in Lakhs)     |                |
| (A)   | Purchases of Power from Different Sources           |                |                |
|       | <b>Damodar Valley Corporation-Grid</b>              |                |                |
| 1     | Mejia TPS (V)                                       | 12520          | 0              |
|       | Damodar Valley Corporation-Radial                   | 22882          | (23)           |
|       | Raghunathpore TPS(RTPS)                             | 42866          | 0              |
|       | <b>National Thermal Power Corporation</b>           |                |                |
| 2     | Farakka STPS Stg I                                  | 100827         | 490            |
|       | Farakka STPS Stg III                                | 49880          | 0              |
|       | Kahelgaon   | 12329          | 5031           |
|       | Talcher STPS  | 17718          | 0              |
|       | Daripalli   | 45244          | 0              |
| 3     | Govt. of Sikkim                                     | 23             | 22             |
|       | <b>National Hydro Power Corporation Limited</b>     |                |                |
| 4     | Teesta V HEP  | 14098          | (134)          |
|       | Rangit HEP  | 4842           | 20             |
|       | Teesta Lower Dam Project III                        | 30263          | (15712)        |
|       | Teesta Lower Dam Project IV                         | 35102          | 0              |
|       | <b>Power Trading Corporation Limited</b>            |                |                |
| 5     | Chukha HEP  | 13965          | 0              |
|       | Kurichu HEP   | 604            | 0              |
|       | Tala HEP  | 22879          | 0              |
|       | Adhunik Power                                       | 36068          | 10030          |
|       | Jhabua  | 17173          | 0              |
|       | JP Nigrie   | 20825          | 0              |
|       | SPDC J & K  | 6404           | 0              |
|       | Mangdechhu  | 37685          | 0              |
| 6     | <b>Durgapur Projects Limited</b>                    |                |                |
|       | DPL ( 220/132 kv )                                  | 97728          | (6546)         |
|       | <b>West Bengal Power Development Corportation</b>   |                |                |
| 7     | Bandel TPS (BTPS)-I                                 | 13559          | 0              |
|       | Bandel TPS (BTPS)-II                                | 45646          | 0              |
|       | Santalalini TPS (STPS)                              | 127216         | 0              |
|       | Kolaghat TPS (KTPS)                                 | 151453         | (85098)        |
|       | Bakreswar TPS (Stage -I & II)                       | 252094         | 0              |
|       | Sagarighi TPS (Stage-I)                             | 112936         | 0              |
|       | Sagarighi TPS (Stage-II)                            | 232782         | 0              |
| 8     | CEFC Ltd  | 929            | 0              |
| 9     | Electro Steel Casting Limited                       | 419            | 0              |
| 10    | Neora Hydro Limited                                 | 348            | 0              |
| 11    | Nippon Power  | 469            | 0              |
| 12    | Rashmi Ispat  | 178            | 0              |
| 13    | Kanti Bijli Utpadan Nigam Ltd                       | 13594          | (28)           |
| 14    | Himadri Chemicals & Industries Ltd                  | 1692           | 0              |
| 15    | Rashmi Cement Ltd                                   | 58             | 0              |
| 16    | Shree Renuka Sugar                                  | 193            | 0              |
| 17    | Bengal Energy Limited                               | 8587           | 0              |
| 18    | Assam Power Distribution Company Ltd                | 68             | 0              |
| 19    | Concast Bengal Industries Ltd                       | 0              | 0              |
| 20    | Jharkhand Bijlee Vitaran Nigam Ltd                  | 10             | 0              |
| 21    | <b>NTPC Vidyut Vyapar Nigam Ltd.(NVVN)</b>          |                |                |
|       | Bundle Power  | 17956          | (99)           |
|       | <b>Tata Power Trading Corporation Limited</b>       |                |                |
| 22    | Dagachu   | 21806          | 5              |
|       | Maithon Power Limited                               | 85077          | (4155)         |
|       | Tata Power Trading Corporation Limited (Short Term) | 0              | 0              |
|       | <b>Power Exchange</b>                               |                |                |
| 23    | Power Exchange India Limited (PXIL)                 | 508            | 0              |
|       | India Exchange Exchange Limited (IEX)               | 35276          | 0              |
| 24    | Solitaire Industries                                | 758            | 0              |
| 25    | Hiranmoyee Energy                                   | 66376          | (174)          |
| 26    | Deviation Settlement ( UI Payable )                 | 14905          | 0              |
|       | <b>Sub-Total (A)</b>                                | <b>1846818</b> | <b>(96370)</b> |



*Sudip L. Mukhopadhyay*  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL



|     |  |         |         |
|-----|--|---------|---------|
| (B) | TRANSMISSION CHARGES   |         |         |
| 27  | Power Grid Corporation India Limited                           | 111960  | (3152)  |
| 28  | WBSETCL  | 147447  | 0       |
| 29  | Power System Operation Corporation Ltd.                        | 323     | (65)    |
| 30  | Reimbursement of Transmission Charges to NVVN Ltd.             | 974     | 0       |
|     | Open Access Charges on Power Purchases                         |         |         |
|     | Power Trading Corporation Limited                              | 427     | 0       |
| 31  | Tata Power Trading Corporation Limited                         | 1508    | 0       |
|     | Power Exchange India Limited (PXIL)                            | 12      | 0       |
|     | India Exchange Exchange Limited (IEX)                          | 2110    | 0       |
|     | Sub-Total (B)  | 264761  | (3217)  |
| (C) | Other Charges  |         |         |
| 32  | ERPC Charges   | 16      | 0       |
| 33  | SLDC Charges   | 2210    | 7       |
| 34  | ERPC Reactive Energy Charges                                   | 553     | 0       |
|     | Sub-Total (C)  | 2779    | 7       |
|     | TOTAL(A+B+C)   | 2114358 | (99581) |
|     | Total Expenditure (Current Power Purchases Cost + Arrear Cost) | 2014779 |         |



*Sudipta Mukherjee*  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL





**J Gupta & Co LLP**  
Chartered Accountants

YMCA Building  
Mezzanine Floor  
25, Jawaharlal Nehru Road  
Kolkata - 700 087  
☎ : (033) 40074539  
Email : jgupta.co.ca@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that Variable Cost (Average Energy Charge Rate for Long-Term Power) during the financial year 2021-22 as per details attached in Annexure-A have been verified by us from the available records maintained at Corporate office and found correct.

For J Gupta & Co LLP  
Chartered Accountants  
FRN: 314010E/E300029  
LLP No. AAM-2652  
UDIN:- 22012208AQRASC2314



CA H.K. Datta  
Partner,  
Membership No. 012208  
Place: Kolkata  
Date: 12<sup>th</sup> August, 2022.

*Sudipta Mukhopadhyay*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL





Annexure-A

| Average Energy Charge Rate for Long-Term Power i.r.o FY 2021-22 |                  |  |                    |
|---|------------------|--|--------------------|
| Long Term Thermal Source  | Purchased Energy | Energy Charge and MFCA Charge if appl. | Energy Charge Rate |
|   | MU               | Rs in Lakhs                            | (P/Kwh)            |
| NTPC  | 5893.968         | 132849                                 | 225.40             |
| KBUNL   | 219.983          | 5875                                   | 267.07             |
| DVC (Mejia V)   | 245.586          | 7519                                   | 306.15             |
| DVC RTPS  | 715.353          | 21855                                  | 305.51             |
| DPL   | 2272.566         | 48194                                  | 212.07             |
| WBPDCCL   | 27484.271        | 569262                                 | 207.12             |
| PTC-ADHYNIK   | 721.793          | 25906                                  | 358.92             |
| PTC JHABUA  | 463.981          | 17173                                  | 370.13             |
| PTC JAYPEE NIGREE   | 486.912          | 20825                                  | 427.70             |
| TPTCL MPL   | 2044.548         | 53940                                  | 263.82             |
| HIRANMAYE ENERGY LIMITED  | 1002.661         | 32230                                  | 321.44             |
| Over all  | 41551.622        | 935629                                 | 225.17             |



*Sudipta Bhattacharya*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL





**J Gupta & Co LLP**

Chartered Accountants

YMCA Building

Mezzanine Floor

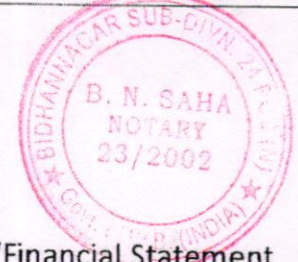
25, Jawaharlal Nehru Road

Kolkata - 700 087

☎ : (033) 40074539

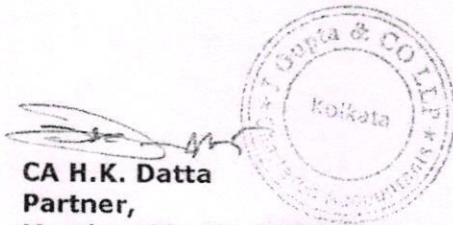
Email : jgupta.co.ca@gmail.com

TO WHOM IT MAY CONCERN



This is to certify that Other Income as per Note:-33 of the 'Financial Statement for the year 2021-22' of West Bengal State Electricity Distribution Company Limited amounting to Rs.112772 Lakhs includes Rs. 2180 lakhs on account of Security Constraint Economic Dispatch (SCED) Refund. The said amount of Rs. 2180 lakhs consists of income Rs. 1075 lakhs for current year and Rs. 1105 lakhs related to arrear of previous year. The above have been verified by us from the available records maintained at Corporate Office and found correct.

For J Gupta & Co LLP  
Chartered Accountants  
FRN: 314010E/E300029  
LLP No. AAM-2652  
UDIN- 22012208AWCLGU5734



CA H.K. Datta  
Partner,  
Membership No. 012208  
Place: Kolkata  
Date: 28<sup>th</sup> September ,2022.

*Sudipto Bhattacharya*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL






**J Gupta & Co LLP**  
Chartered Accountants

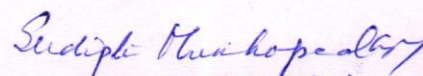
YMCA Building  
Mezzanine Floor  
25, Jawaharlal Nehru Road  
Kolkata - 700 087  
☎ : (033) 40074539  
Email : jgupta.co.ca@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that West Bengal State Electricity Distribution Company limited (WBSEDCL) made payment to State Bank of India CAG Branch, 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 J Gupta & Co LLP  
Chartered Accountants  
FRN: 314010E/E300029  
LLP No. AAM-2652  
UDIN:- 22012208AWDFNE4653

  
CA H.K. Datta  
Partner,  
Membership No. 012208  
Place: Kolkata  
Date:

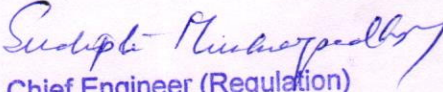
  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



**Particulars of payment made to SBI CAG Branch ,New Delhi for bill discounting in  
respect of NHPC LTD.**

| Bill discounting of Rs. 3240000000 |              | Bill discounting of Rs. 2910000000 |              | TOTAL AMOUNT (Rs.) |
|------------------------------------|--------------|------------------------------------|--------------|--------------------|
| Date of Payment                    | Amount (Rs.) | Date of Payment                    | Amount (Rs.) |                    |
| 15.11.2021                         | 270000000    |                                    |              | 270000000          |
| 15.12.2021                         | 270000000    |                                    |              | 270000000          |
| 14.01.2022                         | 270000000    |                                    |              | 270000000          |
| 15.02.2022                         | 270000000    |                                    |              | 270000000          |
| 15.03.2022                         | 270000000    |                                    |              | 270000000          |
| TOTAL                              | 1350000000   |                                    |              | 1350000000         |



  
**Chief Engineer (Regulation)**  
 Regulation Department  
 WBSEDCL



**Net Energy purchased during the year 2021-22[ E<sub>imp</sub> ]**
**Annexure - II**

| Name of Power Supply Agency  | Energy Purchased                            |   | Remarks          |
|--|---|---|------------------|
|  | Actual Energy Purchased (E <sub>imp</sub> ) | Energy purchase as approved by the Commission in the Tariff order for 2021-22 (e <sub>imp</sub> ) |                  |
|  | (MKwh)                                      | (MKwh)  |                  |
| <b>Long Term</b>   |   |   |                  |
| NTPC Limited (FSTPS)   | 3,399.754                                   | 4,794   |                  |
| NTPC Limited (TSTPS)   | 631.178                                     | 637   |                  |
| NTPC Limited (Kahelgaon-Stage1)  | 333.194                                     | 345   |                  |
| NTPC Limited (Darlipalli-Stage1)   | 1,529.842                                   | 2,050   |                  |
| PTC (India) Limited (Chukha)   | 581.483                                     | 557   |                  |
| PTC (India) Limited (Kurichhu)   | 23.949                                      | 34  |                  |
| PTC (India) Limited (Tala )  | 1,058.951                                   | 1,125   |                  |
| Damodar Valley Corporation - Grid  | 960.939                                     | 1,771   |                  |
| Damodar Valley Corporation -Radial   | 506.096                                     | 545.800   |                  |
| Durgapur Projects Limited  | 2,272.566                                   | 3,518   |                  |
| North Karanpura  |   | 76  |                  |
| NHPC Limited (Rangeet)   | 93.031                                      | 95  |                  |
| NHPC Limited (Teesta V)  | 623.805                                     | 646   |                  |
| NHPC Limited (TLDP III)  | 588.833                                     | 506   |                  |
| NHPC Limited (TLDP IV)   | 724.541                                     | 618   |                  |
| Govt. of Sikkim  | 0.424                                       | 0   |                  |
| West Bengal Power Development Corporation  | 27,484.271                                  | 24,458  |                  |
| West Bengal Renewable Energy Development   | -   | 0   |                  |
| CESC Limited   | 14.201                                      | 8.470   |                  |
| Tata Power Company Limited (Haldia)  | -   | -   |                  |
| Electro Steel Casting Limited  | 16.568                                      | 28.15   |                  |
| Neora Hydro Limited  | 9.662                                       | 7.38  |                  |
| Nippon Power Limited   | 13.035                                      | 5.56  |                  |
| Himadri Chemicals & Industries Ltd   | 52.143                                      | 35.33   |                  |
| Shree Renuka Sugars Ltd.   | 7.024                                       | -   |                  |
| Rashmi Ispat   | 8.026                                       | 8.24  |                  |
| Reshmi Cements Ltd   | 2.828                                       | 34.32   |                  |
| Bengal Energy Limited  | 289.676                                     | 224.93  |                  |
| Concast Bengal Ind. Ltd.   | -   | 4.80  |                  |
| NVVN (Solar Bundle Power)  | 350.451                                     | 364   |                  |
| TPTCL (Mithon Right Bank)  | 2,044.548                                   | 2,105   |                  |
| TPTCL (Dagachhu)   | 586.707                                     | 513   |                  |
| PTC (India) Limited (Baglihar HEP, SPDC )  | 172.013                                     | 558   |                  |
| PTC (India) Limited (Adhunik )   | 721.793                                     | 399   |                  |
| PTC (India) Limited (Jhabua )  | 463.981                                     | 386   |                  |
| PTC (India) Limited (Jaiprakash )  | 486.912                                     | 386   |                  |
| PTC (India) Limited (Mangdechhu )  | 899.415                                     | 510   |                  |
| JHARKHAND BIJLI  | 0.074                                       | 0   |                  |
| Assam Power  | 0.771                                       | 1   |                  |
| Kanti Bijli  | 219.983                                     | 255   |                  |
| Solitaire  | 6.578                                       | 6.99  |                  |
| Ankit Metal  |   | 3   |                  |
| Hiranmayee   | 1,002.661                                   | 2,010   |                  |
| <b>Short term Power</b>  |   |   |                  |
| PTC (India) Limited  | -   |   |                  |
| DVC short term   | -   |   |                  |
| DB Power   | -   |   |                  |
| JSWPTC   | -   |   |                  |
| NVVNL  | -   |   |                  |
| Tata Power Trading Co. Ltd. (Short term)   | -   |   |                  |
| Power Exchange India Limited   | 4.521                                       |   |                  |
| Indian Energy Exchange Limited   | 831.709                                     |   |                  |
| <b>Short Term-Solar</b>  |   | 851   |                  |
| <b>Short Term-Non solar</b>  |   | 1,847   |                  |
| TPTCL  | -   |   |                  |
| <b>Swap In</b>   |   |   |                  |
| <b>TOTAL</b>   | <b>49,018.136</b>                           | <b>52,326</b>   |                  |
| Deviation Settlement Mechanism (DSM) (In)  | 433.202                                     |   |                  |
| Energy Received for wheeling at 33 KV  | 138.937                                     | 155.300   |                  |
| <b>Less</b>  |   |   |                  |
| Grid (CTU) loss  | 543.525                                     | 312.510   |                  |
| STU Transmission Loss  | 1,702.153                                   | 1,803.070   |                  |
| Deviation Settlement Mechanism (DSM) (Out)   | 333.940                                     | -   |                  |
| Sale to persons other than consumer & licensee including Tr. loss                      | 7,688.072                                   | 9,926.080   | Refer Appendix-I |
| Power Swap out   | -   | -   |                  |
| PPSP Pumping Power including Tr. Loss  | 1,655.475                                   | 1,504.493   |                  |
| Energy wheeled (including loss)  | 138.937                                     | 155.300   |                  |
| <b>NET IMPORT BY WBSEDCL FOR SALE TO CONSUMERS AND LICENSEE UNDER PURVIEW OF WBERC</b> | <b>37,528.17</b>                            | <b>38,779.847</b>   |                  |

Swagat Kundopooly  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL



Actual fuel and power purchase 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 2021-22

Annexure - III

|                             |   |   | Value        | Remarks                                       |
|-----------------------------|---|---|--------------|---|
| t                           | Norms of Transmission and Distribution loss in % considered for sale of power from licensee to licensee   |   | 3.40         |   |
| d                           | Norms of distribution loss in %   |   | 17.50        |   |
| E <sub>o</sub>              | Admitted Energy for own consumption by licensee   |   | 73.00        |   |
| E <sub>SL</sub>             | Energy sale to other licensee in MU   |   | 54.09        |   |
| E <sub>sc</sub>             | Energy sale to consumer in MU   |   | 33248.934    | Own Consumer : 33222.554MU , DPSCL :26.380 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            |   |
| F <sub>IUC</sub>            | 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.   |   | 0.000        |   |
| FC <sub>Adm_d</sub>         | Admitted Fuel Cost for sale to licensee   | $= \frac{E_{SL}}{(1 - t \times 0.01)} \times F_{IUC}$       | 0            |   |
| FC <sub>Adm_c</sub> (in Rs) | Admitted Fuel Cost for sale to consumer   | $= \frac{E_{sc} + E_o}{(1 - d \times 0.01)} \times F_{IUC}$ | 0            |   |
| 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 may 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            |   |
| 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.  |   | 165542300000 | Refer Annexure - I                            |
| d                           | Norms of distribution loss in %   |   | 17.50        |   |
| t                           | Norms of Transmission and Distribution loss in % considered for sale of power from licensee to  |   | 3.40         |   |
| E <sub>g</sub>              | Actual energy sent out in MU from own generating station  |   | 1801.738     |   |

*Sudipto Mukherjee*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



Actual fuel and power purchase 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 2021-22

Annexure - III

|                         |  |   |              | Annexure - III Contd  |
|-------------------------|--|---|--------------|---|
| E                       | excess amount of auxiliary energy consumption in MU  |   | 0.00         |   |
| E <sub>P</sub>          | Total energy purchased in MU   | Schedule purchase + Swap in power + UI(in) + Power received for wheeling - UI(out) - CTU loss - STU loss - swap out-sale to persons other than consumer & licensee - PPSP pumping power (normative) | 37,528.175   |   |
| E <sub>O</sub>          | Admitted Energy for own consumption by licensee  |   | 73.00        |   |
| E <sub>SC</sub>         | Energy sale to consumer in MU  |   | 33248.934    |   |
| E <sub>SL</sub>         | Energy sale to other licensee in MU  |   | 54.09        |   |
| E <sub>Adm</sub>        | Admitted Amount of Energy entitled for purchase  | $= \frac{E_{SC} + E_O}{1 - d \times 0.01} + \frac{E_{SL}}{(1 - t \times 0.01)}$   | 38644.483    |   |
| E <sub>E</sub>          | Excess energy purchased  | $E_P - E_{Adm}$   | -1116.308    |   |
| EP <sub>Avg</sub>       | Average cost of power purchase ( paise/Kwh)  |   | 372.99       |   |
| C <sub>D</sub> (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. |   | -8176400000  | Prior period adjustment considered: (Refer para 17 of the application)<br>DVC - Rs(-) 23 lakh,<br>NTPC - Rs 5521 lakh,<br>NHPC - Rs (-)114 lakh,<br>PTC - Rs 10030 lakh,<br>TPTCL - Rs (-)4150 lakh,<br>NVVNL- Rs(-) 99 lakh<br>Kanti Bijli Utpadan Nigam- Rs(-) 28 Lakh,<br>DPL- Rs(-) 6546 Lakh<br>HMEL - Rs(-)174 Lakh<br>WBPDC - Rs (-)85098 Lakh<br>Sikkim- Rs 22 Lakh<br>SCED refund from SLDC for the period April'2019 to March'2021-Rs(-)1105 lakh |
| FPPC (In Rs.)           | Actual fuel and power purchase cost admitted against energy sold to own consumers and other licensee during adjustment period  | $\{FC + (PPC - C_D) + (\pm A)\}$  | 157365900000 |   |



*Sudipta Munishgoudy*  
Chief Engineer (Regulation)  
Regulation Department



## Computation of benefit for saving in distribution loss

| Sl No | Particulars   | Value      | Remarks                               |
|-------|---|------------|---------------------------------------|
| 1     | Admitted Amount of Energy entitled for purchase (MU)  | 38644.483  | Ref E <sub>adm</sub> of Annexure-III  |
| 2     | Total energy purchased in MU                          | 37528.175  | Ref E <sub>p</sub> of Annexure-III    |
| 3     | Energy saved due to Distribution loss Below normative | 1116.308   | Refer para 21 of the application      |
| 4     | Average cost of power purchase (paise/Kwh)            | 372.99     | Ref EP <sub>AVG</sub> of Annexure-III |
| 5     | Cost of energy saved (Rs)                             | 4163700000 | Refer para 20 of the application      |



*Sudipta Munshi*  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL