



# West Bengal State Electricity Distribution Company Limited



## Volume-I

Application seeking  
Annual Performance Review for 2021-22

Submitted to the  
**HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**



# West Bengal State Electricity Distribution Company Limited



Annexure – I  
of  
Volume-I

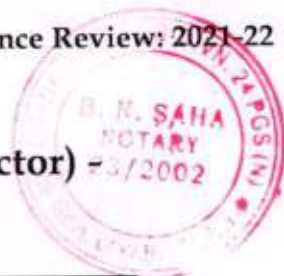
Data Formats

Submitted to the  
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# Form 1.1 : Availability of Plant (Plant Availability Factor) - Annually

Station	in %
	2021-22
Stabilised Commercial Operation	
A) Hydel Power Stations:	
a) Jaldkha HEP -Stg-I	100.00%
b) Rammam HEP	88.07%
B) Small Hydel Unit	
a) Jaldkha HEP Stg-II	59.26%
b) Teesta Canal Fall, PS-I	59.78%
c) Teesta Canal Fall, PS-II	82.19%
d) Teesta Canal Fall, PS-III	98.76%
e) Fazi	90.78%
f) Little Rangeet / Bijanbari	99.85%
g) Sidrabong	99.20%
h) Rinchinton	79.22%
i) Messanjore	100.00%
j) Mangoo- Kalikhola	91.86%



# Form 1.1 : Availability of Plant (Plant Availability Factor) Annually

Station	in %
	2021-22
<b>C) Pump Storage Project</b>	
a) Purulia	91.41%
<b>D) Solar Power Project</b>	
a) Teesta Canal Bank Solar PV Project (10 MW)	98.00%
b) Chharrah Solar PV Project (10 MW)	98.00%
c) Salboni(10 MW)	98.00%
d) Patni (10 MW)	98.00%
e) Teesta Haptiagach(10 MW)	98.00%
f) Santaldih (10 MW)	0.16%
g) Dhaka 1(10 MW)	98.00%
h) Dakha 2(10 MW)	98.00%
i) Raniganj (10 MW)	62.00%
j) Mejia (10W)*	0.00%

Note: Availability calculated from the date of commissioning of available unit

\* To be restored after replacement of the damaged / stolen equipments



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**Form 1.1(a) : Availability of Unit (Unitwise Availability Factor). -  
Annually (stationwise)**

Name of the Station:	in %	Remarks
	2021-22	
	Actual	
<b>A) Hydel Power Stations:</b>		
<b>a) Jaldkha HEP Stg-I</b>		
Unit 1	100.00%	
Unit 2	100.00%	
Unit 3	100.00%	
Unit 4	100.00%	
<b>Overall</b>	<b>100.00%</b>	
<b>b) Jaldkha HEP Stg-II</b>		
Unit 1	41.66%	
Unit 2	76.86%	
<b>Overall</b>	<b>59.26%</b>	
<b>c) Rammam HEP</b>		
Unit 1	99.86%	
Unit 2	57.10%	
Unit 3	99.44%	
Unit 4	95.88%	
<b>Overall</b>	<b>88.07%</b>	
<b>d) Teesta Canal Fall, PS-I</b>		
Unit 1	62.85%	
Unit 2	68.16%	
Unit 3	48.34%	
<b>Overall</b>	<b>59.78%</b>	



## Form 1.1(a) : Availability of Unit (Unitwise Availability Factor) - Annually (stationwise)

Name of the Station:	in %	Remarks
	2021-22	
	Actual	
e) Teesta Canal Fall, PS-II		
Unit 1	82.21%	
Unit 2	82.16%	
Unit 3	82.19%	
Overall	82.19%	
f) Teesta Canal Fall, PS-III		
Unit 1	96.84%	
Unit 2	99.72%	
Unit 3	99.72%	
Overall	98.76%	
g) Fazi		
Unit 3		
Unit 4		
Unit 5		
Unit 6	90.78%	
Overall	90.78%	
h) Little Rangeet / Bijanbari		
Unit 1	99.69%	
Unit 2	100.00%	
Overall	99.85%	

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**Form 1.1(a) : Availability of Unit (Unitwise Availability Factor) -  
Annually (stationwise)**

Name of the Station:	in %	Remarks
	2021-22	
	Actual	
<b>i) Sidrabong</b>		
Unit 1	98.39%	
Unit 2	100.00%	
<b>Overall</b>	<b>99.20%</b>	
<b>j) Rinchinton</b>		
Unit 1	79.41%	
Unit 2	79.03%	
<b>Overall</b>	<b>79.22%</b>	
<b>k) Messanjore</b>		
Unit 1	100.00%	
Unit 2	100.00%	
<b>Overall</b>	<b>100.00%</b>	
<b>l) Mangoo- Kalikhola</b>		
Unit 1	99.17%	
Unit 2	76.50%	
Unit 3	99.91%	
<b>Overall</b>	<b>91.86%</b>	





**Form 1.1(a) : Availability of Unit (Unitwise Availability Factor) Annually (stationwise)**

Name of the Station:	in %	Remarks
	2021-22	
	Actual	
<b>B) Pump Storage Project:</b>		
<b>a) Purulia</b>		
Unit 1	99.37%	
Unit 2	67.29%	
Unit 3	99.72%	
Unit 4	99.26%	
<b>Overall</b>	<b>91.41%</b>	
<b>C) Solar Power Plant:</b>		
a) Teesta Canal Bank Solar PV Project (10 MW)	98.00%	
b) Chharrah Solar PV Project (10 MW)	98.00%	
c) Salboni(10 MW)	98.00%	
d) Patni (10 MW)	98.00%	
e) Teesta Haptiagach(10 MW)	98.00%	
f) Santaldih (10 MW)	0.16%	
g) Dhaka 1(10 MW)	98.00%	
h) Dakha 2(10 MW)	98.00%	
i) Raniganj (10 MW)	62.00%	
j) Mejia (10W)*	0.00%	
<b>Overall</b>	<b>74.82%</b>	

\* To be restored after replacement of the damaged / stolen equipments.



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## Form 1.2 Plant Load Factor - Annually

2021-22

Station	Actual
	in %
<b>Stabilised Commercial Operation</b>	
<b>i) Hydel Power Stations:</b>	
a) Jaldkha HEP -Stg-I	49.26
b) Rammam HEP	60.06
c) Jaldkha HEP -Stg-II	32.62
d) Teesta Canal Falls PS-I	13.31
e) Teesta Canal Falls PS-II	12.29
f) Teesta Canal Falls PS-III	11.17
g) Other Hydro	30.04
<b>Sub Total - Hydel</b>	<b>36.00</b>
<b>ii) Pump Storage Power Station:</b>	
a) Purulia	15.01
<b>iii) Solar Power Station:</b>	
a) Teesta Canal Bank Solar PV Project (10 MW)	10.28
b) Chharrah Solar PV Project (10 MW)	8.66
c) Salboni(10 MW)	15.78
d) Patni (10 MW)	16.19
e) Teesta Haptiagach(10 MW)	14.21
f) Santaldih (10 MW)	2.42
g) Dhaka 1(10 MW)	15.89
h) Dakha 2(10 MW)	15.61
i) Raniganj (10 MW)	5.81
j) Mejia (10W)*	0.00
<b>Sub Total - Hydel</b>	<b>11.97</b>

\* To be restored after replacement of the damaged / stolen equipments



**Form 1.3 Gross Energy available at Generators Terminal for  
Stabilised Commercial Operation (Stationwise)**

2021-22

Station	Actual
	MU
<b>Stabilised Commercial Operation</b>	
<b>i) Hydel Power Stations:</b>	
a) Jaldkha HEP -Stg-I	155.331
b) Rammam HEP	268.309
c) Jaldkha HEP -Stg-II	22.863
d) Teesta Canal Falls PS-I	26.232
e) Teesta Canal Falls PS-II	24.222
f) Teesta Canal Falls PS-III	22.013
g) Rinchington Hydel Project	5.468
h) L.R.H.P.	5.239
i) M.K.H.P.	6.650
j) Sidrapong	0.183
k) Messanjore	10.082
l) Fazi	5.538
<b>Sub Total - Hydel</b>	<b>552.128</b>
<b>ii) Pump Storage Power Station:</b>	
a) Purulia	1183.400





**Form 1.3 Gross Energy available at Generators Terminal for Stabilised Commercial Operation (Stationwise)**

2021-22

Station	Actual
	MU
<b>iii) Solar Power Station:</b>	
a) Teesta Canal Bank Solar PV Project (10 MW)	9.006
b) Chharrah Solar PV Project (10 MW)	7.589
c) Salboni(10 MW)	13.821
d) Patni (10 MW)	14.186
e) Teesta Haptiagach(10 MW)	12.452
f) Santaldih (10 MW)	2.119
g) Dhaka 1(10 MW)	13.915
h) Dakha 2(10 MW)	13.674
i) Raniganj (10 MW)	5.086
j) Mejia (10W)*	0.000
<b>Sub Total -Solar</b>	<b>91.849</b>
<b>Grand Total:</b>	<b>1827.377</b>

\* To be restored after replacement of the damaged / stolen equipments



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## Form 1.4(a) Auxiliary Consumption for stabilised Commercial Operation (Stationwise)

Station	2021-22
	Actual MU
<b>Stabilised Commercial Operation</b>	
<b>i) Hydel Power Stations:</b>	
a) Jaldkha HEP -Stg-I	1.553
b) Rammam HEP	2.683
c) Jaldkha HEP -Stg-II	0.229
d) Teesta Canal Falls PS-I	0.262
e) Teesta Canal Falls PS-II	0.242
f) Teesta Canal Falls PS-III	0.220
g) Rinchington Hydel Project	0.055
h) L.R.H.P.	0.052
i) M.K.H.P.	0.066
j) Sidrapong	0.002
k) Messanjore	0.101
l) Fazi	0.055
<b>Sub Total - Hydel</b>	<b>5.521</b>
<b>ii) Pump Storage Power Station:</b>	
a) Purulia	20.118
<b>iii) Solar Power Station:</b>	
a) Teesta Canal Bank Solar PV Project (10 MW)	0.000
b) Chharrah Solar PV Project (10 MW)	0.000
c) Salboni(10 MW)	0.000
d) Patni (10 MW)	0.000
e) Teesta Haptiagach(10 MW)	0.000
f) Santaldih (10 MW)	0.000
g) Dhaka 1(10 MW)	0.000
h) Dakha 2(10 MW)	0.000
i) Raniganj (10 MW)	0.000
j) Mejia (10W)*	0.000
<b>Sub Total -Solar</b>	<b>0.000</b>
<b>Grand Total:</b>	<b>25.639</b>

\* To be restored after replacement of the damaged / stolen equipments

## Form 1.4(b) Pumping Energy for Pumped Storage Project including Transmission &amp; Transformation Loss

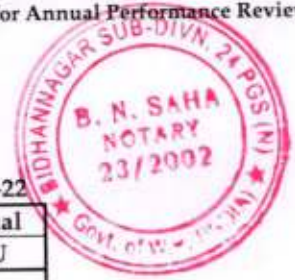
Station	2020-21
	Actual MU
a) Purulia Pump Storage Project	1655.475

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## Form 1.5(a) Net Sent Out for Stabilised Commercial Operation (Stationwise)



Station	2021-22
	Actual MU
<b>Stabilised Commercial Operation</b>	
<b>i) Hydel Power Stations:</b>	
a) Jaldkha HEP -Stg-I	153.777
b) Rammam HEP	265.626
c) Jaldkha HEP -Stg-II	22.634
d) Teesta Canal Falls PS-I	25.970
e) Teesta Canal Falls PS-II	23.980
f) Teesta Canal Falls PS-III	21.792
g) Rinchington Hydel Project (*)	5.413
h) L.R.H.P. (*)	5.186
i) M.K.H.P. (*)	6.583
j) Sidrapong (*)	0.181
k) Messanjore (*)	9.981
l) Fazi (*)	5.483
<b>Sub Total - Hydel</b>	<b>546.607</b>
<b>ii) Pump Storage Power Station:</b>	
a) Purulia	1163.282
<b>iv) Solar Power Station(*):</b>	
a) Teesta Canal Bank Solar PV Project (10 MW)	9.006
b) Chharrah Solar PV Project (10 MW)	7.589
c) Salboni(10 MW)	13.821
d) Patni (10 MW)	14.186
e) Teesta Haptiagach(10 MW)	12.452
f) Santaldih (10 MW)	2.119
g) Dhaka 1(10 MW)	13.915
h) Dakha 2(10 MW)	13.674
i) Raniganj (10 MW)	5.086
j) Mejia (10W)**	0.000
<b>Sub Total -Solar</b>	<b>91.849</b>
<b>Grand Total:</b>	<b>1801.738</b>

NB: \* denotes for energy injection at 33 KV and below.

\* \*\*To be restored after replacement of the damaged / stolen equipments

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## Form1.6(a) : Energy Purchased (Sourcewise)

2021-22

Sl No	Source	Actual MU
<b>A</b>	<b>WBPDC</b>	
	Bandel TPS	1559.470
	Santalalhi TPS	3578.424
	Kolaghat TPS	3772.722
	Bakreswar TPS	7588.411
	Sagardighi TPS (Stage - I)	4015.397
	Sagardighi TPS (Stage - II)	6969.847
	<b>TOTAL WBPDC</b>	<b>27484.271</b>
<b>B</b>	<b>DPL</b>	
	132/220 KV	2272.566
	33KV & 11 KV	
	<b>TOTAL DPL</b>	<b>2272.566</b>
<b>C</b>	<b>IPCL Hiranmayee</b>	<b>1002.661</b>
<b>D</b>	<b>NTPC</b>	
	Farraka STPS Stg I & II	2369.976
	Farraka STPS Stg III	1029.778
	Talcher STPS	631.178
	Kahelgaon (Stg-1) STPS	333.194
	Darlipali	1529.842
	Kanti Bijli	219.983
	<b>TOTAL NTPC</b>	<b>6113.950</b>

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## Form1.6(a) : Energy Purchased (Sourcewise)

Sl No	Source	2021-22 Actual MU
<b>E</b>	<b>PTC</b>	
	Chukha	581.483
	Kurichu	23.949
	Tala Hydro	1058.951
	J&K ( Baglihar)	172.013
	APNRL	721.793
	Jhabua	463.981
	Jaiprakash	486.912
	Mangdechhu	899.415
	<b>TOTAL PTC</b>	<b>4408.497</b>
<b>F</b>	<b>N.H.P.C</b>	
	Rangit	93.031
	Teesta-V	623.805
	TLDP III	588.833
	TLDP IV	724.541
	<b>Total N.H.P.C</b>	<b>2030.211</b>
<b>G</b>	<b>DVC</b>	
	DVC Pool	0.000
	Mejia TPS-V	245.586
	Mejia TPS-VI and VII	
	RTPS	715.353
	Radial	506.096
	<b>Total DVC</b>	<b>1467.035</b>
<b>H</b>	<b>NVVNL Bundle Power ( Thermal)</b>	<b>286.586</b>

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## Form1.6(a) : Energy Purchased (Sourcewise)

Sl No	Source	Actual
		MU
I	Govt. Of Sikkim	0.424
J	CESC Limited	14.201
K	Jharkhand Bijli Vitaran Nigam Limited	0.074
L	APDCL	0.771
M	TPTCL	
	Maithon Power	2044.548
	Dagachhu	586.707
	<b>Total TPTCL</b>	<b>2631.256</b>
N	<b>Co-generation/ Renewable Sources of Energy</b>	
	WBREDA	0.000
	Tata Power Company Limited (Haldia)	0.000
	Electro Steel Casting Limited	16.568
	Neora Hydro Limited	9.662
	Nippon Power Limited	13.035
	Himadri Chemicals & Industries Ltd	52.143
	Shree Renuka Sugars Ltd.	7.024
	Amrit Bio-Energy & Industries Ltd.	0.000
	Reshmi Cements Ltd	2.828
	Reshmi Ispat Ltd	8.026
	Bengal Energy Limited	289.676
	Concast Bengal Ind. Ltd.	0.000
	NVVNL Bundle Power ( Solar)	63.865
	Solitaire	6.578
	Short-term(TPC-Haldia)	0.000
	<b>Total Co-generation/ Renewable Sources</b>	<b>469.404</b>





## Form1.6(a) : Energy Purchased (Sourcewise)

2021-22

Sl No	Source	Actual
		ML
O	Short Term	
	Tader	
	Tata Power Trading Co. Ltd. (TPTCL)	0.000
	PTC India Ltd. (PTC)	0.000
	NVVNL	0.000
	JSWPTC	
	DB Power	0.000
	<b>Total Trader</b>	<b>0.000</b>
	<b>Power Exchange</b>	
	Indian Energy Exchange Limited	831.709
	Power Exchange India Limited	4.521
	<b>Total Power Exchange</b>	<b>836.229</b>
	<b>Total short-term</b>	<b>836.229</b>
P	Swap In	0.000
	<b>Grand Total:</b>	<b>49018.136</b>
	Less: CTU Grid Loss	543.525
	<b>Net Purchase</b>	<b>48474.611</b>



Chief Engineer (Regulation)  
Regulation Department  
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## Form 1.7: T&amp;D Loss %

Ref		Unit	Derivation	2021-22 (Actual)	Remarks
1	Generation [Form 1.3]	MU	A	1827.377	
2	Auxiliary Consumption [Form 1.4(a)]	MU	B1	25.639	
3	Transformation Loss [Form 1.4(b)]	MU	B2	0.000	
4	Units delivered to system from generation (including infirm power, if any) [Form 1.5(a)]	MU	C=A-B1-B2	1801.738	
(a)	At EHV	MU	C1	1712.258	
(b)	At 33 KV and below	MU	C2	89.480	
5	Quantum of infirm power included in 1	MU		0.000	
6	Energy Purchased [Form 1.6(a)]	MU	D	46772.459	After deducting STU loss of 1702.153 MU
7	Energy Received for Wheeling [Form 1.9a]	MU	E	138.937	
8	Overall Gross Energy Input to WBSETCL System	MU	F=C+D+E	48713.134	
9	Energy sold to other than licensees and consumers [Form 1.9b]	MU	G1	7426.678	
10	Additional Units allowed by Commission for Sales to persons other than licensees or any consumers	MU	G2	261.394	
11	Units sold/ used for pumping energy of Pumped Storage Project at Bus bar [Form 1.4(b)]	MU	G3	1599.189	
12	Additional Units allowed by Commission against Pumping Energy for pumping loss	MU	G4	56.286	
13	Energy sold to licensee [Form 1.9c]	MU	G5	52.255	
14	Additional Units allowed by Commission for Sales to other licensees	MU	G6	1.839	
15	Net UI [ Actual drawal]	MU	G7	-99.262	UI (IN) =433.202 MU UI (OUT) =333.940 MU
16	Total Energy goes out of System	MU	G=G1+G2+G3+G4+G5+G6+G7	9298.379	
17	Net Energy in System	MU	H=F-G	39414.756	
18	Units sold to consumers + Sale to DPSCCL from Distribution System	MU	I	33248.934	
19	Units wheeled [Form 1.9d]	MU	J	138.241	
20	Additional units allowed for wheeling	MU	K	0.696	
21	Units utilised in own premises including construction power	MU	L	73.000	
22	Quantum of construction power included in 21	MU		0.000	
23	Overall Utilisation	MU	M=sum(I:L)	33460.871	
24	Unutilised Units	MU	N=H-M	5953.885	
25	System Loss	%	O= N*100/H	15.11	



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## Form 1.8 : Aggregate Technical &amp; Commercial (ATC) Loss

2021-22

Ref		Unit	Derivation	As per direction 8.4 (d) of Tariff order 2017-18
1	Unit supplied to System (item H of form 1.7)	MU	A	39414.756
2	Unit utilised (Item M of form 1.7)	MU	B	33460.871
3	Unutilised Units (Item N of form 1.7)	MU	$C = A - B$	5953.885
4	Distribution Loss % (Item O of form 1.7)	%	$D = (C \times 100) / A$	15.11
5	Realised Units in corresponding period	MU	E	32868.61
6	AT& C loss in units	MU	$F = A - E$	6546.14
7	AT& C loss in %	%	$G = (F / A) \times 100$	16.61







## Form 1.8 : Aggregate Technical &amp; Commercial (ATC) Loss

2021-22

Ref		Unit	Derivation	Actual
1	Unit supplied to System (item H of form 1.7)	MU	A	39414.756
2	Unit utilised (Item M of form 1.7)	MU	B	33460.871
3	Unutilised Units (Item N of form 1.7)	MU	$C = A - B$	5953.885
4	Distribution Loss % (Item O of form 1.7)	%	$D = (C \times 100) / A$	15.11
5	Realised Units in corresponding period	MU	E	31125.30
6	AT& C loss in units	MU	$F = A - E$	8289.45
7	AT& C loss in %	%	$G = (F / A) \times 100$	21.03



*Sudipto Bhattacharya*

Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL

## Form 1.9 : Energy Balance

2021-22

Ref.	Particulars	Unit	Derivation	Actual	Remarks
<b>A</b>	<b>Energy Input</b>				
1	Generation [Form 1.3]	MU		1827.377	
2	Auxiliary Consumption [Form 1.4]	MU		25.639	
3	Transformation Loss	MU		0.000	
4	Units delivered to system from generation [Form 1.5]	MU	4=1-2-3	1801.738	
5	Energy Purchased at EHV including SWAP in power [Form 1.6]	MU	5	46772.459	After deducting STU loss of 1702.153 MU
6	Energy Received for Wheeling at 132 KV [Form 1.9a]	MU	6	138.937	
7	<b>Overall Gross Energy Input to WBSETCL System</b>	<b>MU</b>	<b>7=sum(4:6)</b>	<b>48713.134</b>	
8	Unit sold to persons other than licensees or any consumers [Form 1.9b]	MU		7426.678	0.000
9	Additional units allowed by Commission for sale to persons other than licensees or any consumers	MU		261.394	
10	Units sold/ used for pumping energy of Pumped Storage Project at Bus bar [Form 1.4(b)]	MU		1599.189	
11	Additional Units allowed by Commission against Pumping Energy for pumping loss	MU		56.286	
12	Energy sold to licensee [Form 1.9c]	MU		52.255	
13	Additional Units allowed by Commission for Sales to other licensees	MU		1.839	
14	Net UI [ Actual drawal]	MU		-99.262	UI (IN) =433.202 MU UI (OUT) =333.940 MU
15	<b>Total Energy goes out of System</b>	<b>MU</b>	<b>15=8+9+10+11+12+13+14</b>	<b>9298.379</b>	
	<b>Energy Input for own system</b>	<b>MU</b>	<b>7-15</b>	<b>39414.756</b>	
<b>B</b>	<b>Energy Utilisation [Form 1.7]</b>				
a.	Units sold to consumers + Sale to DPSCCL from Distribution System	MU		33248.934	
b	Units wheeled [Form 1.9c]	MU		138.241	
c	Additional units allowed for wheeling	MU		0.696	
d	Units utilised in own premises including construction power	MU		73.000	
e	Unutilised Units	MU		5953.885	
	<b>Total Energy</b>	<b>MU</b>	<b>sum(Y:AD)</b>	<b>39414.756</b>	





**Form 1.9 a : Energy received for Wheeling (at 33KV)**

Ref.	Particulars	MU
		Actual
1.	Wheeling(Rashmi Cement & PCBL)	138.937

**Form 1.9 b : Energy sold to person other than licensees or**

Ref.	Particulars	MU
		Actual
1	Energy sold to person other than licensees and consumers	7426.678
2	Swap Out	0.000
	<b>Grand Total:</b>	<b>7426.678</b>

**Form 1.9 c : Energy sold to licensees**

Ref.	Licensee	MU
		Actual
1	CESC	0.250
2	DPL	0.000
3	Govt. of Sikkim	52.005
4	DVC	0.000
	<b>Total sale at EHV level</b>	<b>52.255</b>
5	DPSC	
	<b>At HV level</b>	<b>26.380</b>
	<b>Total</b>	<b>78.635</b>

**Form 1.9 d : Energy wheeled at Delivery Point**

Ref.	Particulars	MU
		Actuals
1.	Wheeling(Rashmi Cement & PCBL)	138.241



**Form 1.11 : COST OF FUEL (STATIONWISE)**

Name of the Station:

**RUDRANAGAR DIESEL POWER STATION**

Rs. In Lakhs

2021-22

Actual

Sl. No.	STATION	DERIVATION	UNIT	
1	Gross Generation		MU	0.000
2	Auxiliary consumption		MU	
3	Sent-out Energy	3=1-2	MU	0.000
4	Station Heat Rate	4	kCal/kWh generated	
5	Total Heat Required	5=1x4	GCal	
6	Specific Oil Consumption		ml/kWh	
7	Oil Consumption	7=6x1	KL	
8	Heat Value of Oil		kCal/Litre	
9	Heat from Oil	9=7x8	GCal	
10	Heat from Coal	10=5-9	GCal	
11	Heat Value of Coal		kCal/Kg	
12	Coal Consumption	12=10/11	Tonne	
13	Coal requirement considering Transit Loss		Tonne	
14	Average Price of Oil		Rs./KL	
15	Average Price of Coal		Rs./Tonne	0.00
16	Cost of Oil	16=7x14	Rs. Lakhs	0.00
17	Cost of Coal	17=13x15	Rs. Lakhs	0.00
18	Total Fuel Cost	18=16+17	Rs. Lakhs	0.00

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

## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station: Small Hydro (Mini Micro + TCF)



Ref.	Particulars	Rs. in Lakhs 2021-22 Actual
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	-
	Oil	-
	others	-
	<b>Sub - Total (i)</b>	-
(ii)	<b>Coal &amp; Ash handling charges</b>	-
(iii)	<b>Demurrage for Transportation of Fuel</b>	-
(iv)	<b>Water Charges</b>	-
(v)	<b>Consumption of stores &amp; spares</b>	-
(vi)	<b>Employee Costs</b>	-
	Salaries & Wages	1557
	Bonus	12
	Contribution to Funds	68
	Welfare Expenses	262
	Performance Incentive	0
	<b>Sub - Total (ii)</b>	1900
	<b>Operation &amp; Maintenance ***</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	
	Security Charges	
	Maintenance of gen Stn	
	Sub-station Maintenance	
	Line Maintenance	
	<b>Sub - Total (iii)</b>	
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	
	Plant & Machineries	
	Others	
	<b>Sub - Total (iv)</b>	
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	
	<b>Total Operation &amp; Maintenance ***</b>	
(x)	<b>Depreciation</b>	-
(xi)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	0
	Loss on obsolescence of inventory	0
	Compensation to outsiders on injury/death/damages	0
	Loss on demolition/ retirement of asset	0
	Written off of the Assets	-
	<b>Sub - Total (vi)</b>	0
(xii)	<b>Overall (1.12)</b>	1900
***	For O & M expenses claim made at normative level as allowed in ARR	



## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station:PPSP

Rs. In Lakhs

Ref.	Particulars	2021-22
		Actual
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	-
	Oil	-
	others	-
	<b>Sub - Total (i)</b>	-
(ii)	<b>Coal &amp; Ash handling charges</b>	-
(iii)	<b>Demurrage for Transportation of Fuel</b>	-
(iv)	<b>Water Charges</b>	-
(v)	<b>Consumption of stores &amp; spares</b>	-
(vi)	<b>Employee Costs</b>	
	Salaries & Wages	1459
	Bonus	11
	Contribution to Funds	67
	Welfare Expenses	146
	Performance Incentive	0
	<b>Sub - Total (ii)</b>	<b>1682</b>
	<b>Operation &amp; Maintenance ***</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	
	Security Charges	
	Maintenance of gen Stn	
	Sub-station Maintenance	
	Line Maintenance	
	<b>Sub - Total (iii)</b>	
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	
	Plant & Machineries	
	Others	
	<b>Sub - Total (iv)</b>	
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	
	<b>Total Operation &amp; Maintenance ***</b>	
(x)	<b>Depreciation</b>	-
(xi)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	-
	Loss on obsolescence of inventory	0.00
	Compensation to outsiders on injury/death/damages	-
	Loss on demolition/ retirement of asset	-
	Written off of the Assets	-
	<b>Sub - Total (vi)</b>	<b>0.00</b>
(xii)	<b>Overall (1.12)</b>	<b>1682</b>
***	For O & M expenses claim made at normative level as allowed in ARR	





## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station: JALDHAKA - Stage I



Ref.	Particulars	
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	-
	Oil	-
	others	-
	<b>Sub - Total (i)</b>	-
(ii)	<b>Coal &amp; Ash handling charges</b>	-
(iii)	<b>Demurrage for Transportation of Fuel</b>	-
(iv)	<b>Water Charges</b>	-
(v)	<b>Consumption of stores &amp; spares</b>	-
(vi)	<b>Employee Costs</b>	-
	Salaries & Wages	447
	Bonus	4
	Contribution to Funds	21
	Welfare Expenses	45
	Performance Incentive	0
	<b>Sub - Total (ii)</b>	517
	<b>Operation &amp; Maintenance ***</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	
	Security Charges	
	Maintenance of gen Stn	
	Sub-station Maintenance	
	Line Maintenance	
	<b>Sub - Total (iii)</b>	
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	
	Plant & Machineries	
	Others	
	<b>Sub - Total (iv)</b>	
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	
	<b>Total Operation &amp; Maintenance ***</b>	
(x)	<b>Depreciation</b>	-
(xi)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	-
	Loss on obsolescence of inventory	-
	Compensation to outsiders on injury/death/damages	-
	Loss on demolition/ retirement of asset	-
	Written off of the Assets	-
	<b>Sub - Total (vi)</b>	-
(xii)	<b>Overall (1.12)</b>	517
***	For O & M expenses claim made at normative level as allowed in ARR	

## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station:RAMMAM

Rs. In Lakhs

2021-22

Actual

Ref.	Particulars	2021-22
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	-
	Oil	-
	others	-
	<b>Sub - Total (i)</b>	-
(ii)	<b>Coal &amp; Ash handling charges</b>	-
(iii)	<b>Demurrage for Transportation of Fuel</b>	-
(iv)	<b>Water Charges</b>	-
(v)	<b>Consumption of stores &amp; spares</b>	-
(vi)	<b>Employee Costs</b>	-
	Salaries & Wages	761
	Bonus	7
	Contribution to Funds	38
	Welfare Expenses	93
	Performance Incentive	0
	<b>Sub - Total (ii)</b>	899
	<b>Operation &amp; Maintenance ***</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	
	Security Charges	
	Maintenance of gen Stn	
	Sub-station Maintenance	
	Line Maintenance	
	<b>Sub - Total (iii)</b>	
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	
	Plant & Machineries	
	Others	
	<b>Sub - Total (iv)</b>	
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	
	<b>Total Operation &amp; Maintenance ***</b>	
(x)	<b>Depreciation</b>	-
(xi)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	-
	Loss on obsolescence of inventory	0
	Compensation to outsiders on injury/death/damages	-
	Loss on demolition/ retirement of asset	-
	Written off of the Assets	-
	<b>Sub - Total (vi)</b>	0
(xii)	<b>Overall (1.12)</b>	899
***	For O & M expenses claim made at normative level as allowed in ARR	



## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station: Solar

Rs. in Lakhs

2021-22

Actual

Ref.	Particulars	
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	-
	Oil	-
	others	-
	<b>Sub - Total (i)</b>	-
(ii)	<b>Coal &amp; Ash handling charges</b>	-
(iii)	<b>Demurrage for Transportation of Fuel</b>	-
(iv)	<b>Water Charges</b>	-
(v)	<b>Consumption of stores &amp; spares</b>	-
(vi)	<b>Employee Costs</b>	
	Salaries & Wages	
	Bonus	
	Contribution to Funds	
	Welfare Expenses	
	Performance Incentive	
	<b>Sub - Total (ii)</b>	-
	<b>Operation &amp; Maintenance</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	-
	Security Charges	-
	Maintenance of gen Stn ***	-
	Sub-station Maintenance	-
	Line Maintenance	-
	<b>Sub - Total (iii)</b>	-
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	-
	Plant & Machineries	-
	Others	-
	<b>Sub - Total (iv)</b>	-
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	-
	<b>Total Operation &amp; Maintenance ***</b>	-
(x)	<b>Lease Rental</b>	-
(xi)	<b>Depreciation</b>	-
(xii)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	-
	Loss on obsolescence of inventory	-
	Compensation to outsiders on injury/death/damages	-
	Loss on demolition/ retirement of asset	-
	Written off of the Assets	-
	<b>Sub - Total (vi)</b>	-
(xiii)	<b>Overall (1.12)</b>	-
***	WBSEDCL has appointed contractor for Design & Engineering, Manufacturing / Procurement, Supply, Installation, Testing & Commissioning and five (5) years' Comprehensive O&M of the 10 MW Teesta Canal Bank Solar PV Plant. After final commissioning of the plant, WBSEDCL has handed over the plant to the contractor on 11.03.2017 for comprehensive O&M for five (5) years. WBSEDCL pays O&M fee to the contractor for such comprehensive O&M as per the contractual price schedule. However, such O&M payment made by WBSEDCL for 2021-22 is not claimed in this APR Application, as the expense is not borne by WBSEDCL and the O&M payment is made from the grant fund dedicated for this solar plant. The grant fund covers comprehensive O&M expenses for five (5) years from the date of handover of the plant. After completion of five (5) years, i.e., after 10.03.2022, WBSEDCL will have to incur O&M expense for the Teesta Canal Bank Solar PV Plant.	



## Form 1.12 : Expenditure - Cost of Energy from own Generation - Stationwise

Name of the Station:Overall

Rs. In Lakhs

Ref.	Particulars	2021-22
		Actual
	<b>Cost of Energy from own Generation - all stations</b>	
	Excludes expense shown under any other head	
(i)	<b>Fuel Cost</b>	
	Coal	0
	Oil	0
	others	0
	<b>Sub - Total (i)</b>	<b>0</b>
(ii)	<b>Coal &amp; Ash handling charges</b>	0
(iii)	<b>Demurrage for Transportation of Fuel</b>	0
(iv)	<b>Water Charges</b>	0
(v)	<b>Consumption of stores &amp; spares</b>	0
(vi)	<b>Employee Costs</b>	
	Salaries & Wages	4225
	Bonus	34
	Contribution to Funds	193
	Welfare Expenses	546
	Performance Incentive	0
	<b>Sub - Total (ii)</b>	<b>4998</b>
	<b>Operation &amp; Maintenance ***</b>	
(vii)	<b>Cost of Outsourcing</b>	
	Back Office Job	
	Security Charges	
	Maintenance of gen Stn	
	Sub-station Maintenance	
	Line Maintenance	
	<b>Sub - Total (iii)</b>	
(viii)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	
	Plant & Machineries	
	Others	
	<b>Sub - Total (iv)</b>	
(ix)	<b>Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	
	Vehicle Maintenance	
	Telephone Expenses	
	Rent	
	Other Management & Administrative Expenses	
	<b>Sub - Total (v)</b>	
	<b>Total Operation &amp; Maintenance ***</b>	
(x)	<b>Depreciation</b>	0
(xi)	<b>Others</b>	
	Expenses due to Penalty, Fines etc.	0
	Loss on obsolescence of inventory	0
	Compensation to outsiders on injury/death/damages	0
	Loss on demolition/ retirement of asset	0
	Written off of the Assets	0
	<b>Sub - Total (vi)</b>	<b>0</b>
(xii)	<b>Overall (1.12)</b>	<b>10654</b>
***	For O & M expenses for Rammam, Jaldhaka, PPSP and Small Hydro power plants, claim made at normative level as allowed in ARR and for Solar claim is made at actuals	



## Form 1.15 : Expenditure - Distribution of Energy

Ref.		Rs. In Lakhs
Particulars		2021-22
		Actual
	Expenses on Distribution of Energy	
	Excludes Expenses shown under any other head	
(i)	<b>Employee Costs</b>	
	Salaries & Wages	79113
	Bonus	870
	Contribution to Funds	4612
	Welfare Expenses	7737
	Previous year adjustments	0
	Performance Incentive	0
	<b>Sub - Total (i)</b>	<b>92332</b>
(ii)	<b>Operation and maintenance</b>	
(a)	<b>Repairs &amp; Maintenance (excluding salaries etc. &amp; stores)</b>	
	Buildings	103
	Distribution Asset	21036
	Others	755
	<b>Sub - Total (ii)</b>	<b>21895</b>
(b)	<b>Other Administrative &amp; Gen Expenses</b>	
	Travelling Expenses	5588
	Vehicle Maintenance	
	Telephone, Postage, Telegram & Telex Charges	254
	Rent	1488
	Other Management & Administrative Expenses	2562
	<b>Sub - Total (iii)</b>	<b>9892</b>
	<b>Total Operation and maintenance</b>	<b>31787</b>
(iv)	<b>Expenses for Complaint Management mechanism</b>	298
(v)	<b>Lease Rental</b>	10
(vi)	<b>Insurance</b>	1
(vii)	<b>Rates &amp; Taxes</b>	15493
(viii)	<b>Cost of outsourcing Manpower related</b>	
	Sub-station Maintenance	4205
	HT Line Maintenance	18225
	Security Charges	3616
	Meter Reading & Bill Distribution	14943
	Back office Job	94
	Call centre	2793
	LT Mobile Maintenance	19231
	Franchisee	0
	Collection Franchisee	1186
	Data warehousing	0
	<b>Sub - Total (iv)</b>	<b>64293</b>
(ix)	<b>Cost of outsourcing excluding manpower</b>	
	Sub-station Maintenance	0
	HT Line Maintenance	0
	LT Mobile Maintenance	0
	Back office Job	0
	Franchisee	0
	Meter Reading & Bill Distribution	0
	Collection Franchisee	0
	Data warehousing	0
	Security Charges	0
	<b>Sub - Total (v)</b>	<b>0</b>
(x)	<b>Bad Debts written off-dues from Customers</b>	10656
(xi)	<b>Depreciation</b>	0
(xii)	<b>Others finance charge</b>	0
(xiii)	<b>Others to be specified, if any</b>	
	Expenses due to Penalty, Fines etc.	
	Loss of materials by pilferage	0
	Loss of obsolete store materials	466
	Compensation to outsiders on injury/death/damages	299
	Prior period expenses	0
	Loss on demolition/ retirement of asset	0
	Loss on Receivable for sale of Land	7040
	<b>Sub - Total (vi)</b>	<b>7805</b>
(xii)	<b>Overall</b>	<b>222675</b>





**Form 1.16 : Expenditure - Sale of Energy****Rs. Lakhs**

Ref.	Particulars	2021-22	Basis
		<b>Actual</b>	
	Expenses on Sale of Energy		<b>Expenditure already included in the Form: 1.15</b>
	Excluding Expenses shown under any other head		
(i)	Consumption of printing and stationery		
(ii)	Repairs & Maintenance (excluding salaries etc. & stores)		
(iii)	Employee Costs <sup>1</sup>		
	Salaries & Wages		
	Bonus		
	Contribution to Funds		
	Welfare Expenses		
(iv)	Depreciation		
(v)	Travelling Expenses		
(vi)	Vehicle Maintenance		
(vii)	Telephone Expenses		
(viii)	Advertisement		
(ix)	Computer Maintenance Expenses		
(x)	Stamps & Courier Charges		
(xi)	Other Management & Administrative Expenses		
(xii)	Expenses due to Penalty, Fines etc.		
(xiii)	Others (specify)		
	Overall Sale of Energy		

**Note:**

1. In WBSEDCL distribution of energy and sale of energy are maintained from same office for which expenditure related to sale of energy are included in the expenditure of distribution of energy. The outsourcing cost related to sale of energy are also included in the outsourcing cost of distribution of energy.



## Form 1.17 : Other expenses centrally maintained

Ref. Particulars		2021-22 Actual		
		Gen.	Dist.	Total
<b>(a) Employee costs &amp; Directors' fees &amp; expenses</b>				
(i)	Salaries & Wages	1,311	29,219	30,530
(ii)	Bonus	23	658	681
(iii)	Contribution to Funds	39	73,484	73,523
(iv)	Welfare Expenses	247	2,873	3,120
(v)	Performance Incentive	-	-	-
(vi)	Less: Capitalisation	252	5,094	5,347
	<b>Total</b>	<b>1,368</b>	<b>1,01,140</b>	<b>1,02,507</b>
<b>(b) Operation And Maintenance</b>				
(i)	Repairs & Maintenance (excluding salaries etc. & stores)		4,157	4,157
(ii)	Impact of Service Tax on Repairs & Maintenance		-	-
(iii)	Travelling Expenses (including Vehicle Running & Maintenance)		641	641
(iv)	Telephone, Telex, etc.		807	807
(v)	Rent		60	60
(vi)	Legal Charges	***	134	134
(vii)	Consultancy Fees, charges and expenses		126	126
(viii)	Auditors' Fees		37	37
(ix)	Postage		-	-
(x)	General Establishment Charges		1,187	1,187
(xi)	Cost of outsourcing Manpower related		964	964
(xii)	Cost of outsourcing excluding manpower	-	-	-
(c)	<b>Total Operation And Maintenance</b>	-	<b>8,112</b>	<b>8,112</b>
(d)	<b>Rates &amp; Taxes (Other than taxes on income &amp; profits)</b>	-	<b>3,442</b>	<b>3,442</b>
(e)	<b>Lease Rental</b>	-	<b>2,012</b>	<b>2,012</b>
(f)	<b>Insurance Premium Payable [Form 1.17 f]</b>	<b>1,303</b>	<b>253</b>	<b>1,556</b>
<b>(g) Interest</b>				
(i)	Interest on Capital Expenditure, Loans & Public Deposits	459	56,570	57,029
(ii)	Interest on Temporary Accommodation [Form 1.17 a]	-	-	-
(iii)	Interest on Working Capital [Form 1.17 b]	-	-	-
(iv)	Interest on Security Deposits at rates specified by the Commission calculated on average basis	-	25,513	25,513
(v)	Interest on advance from consumers	-	-	-
(vi)	Other Finance Charges [Form 1.17 c]	496	9,693	10,189
(vii)	Delayed Payment Surcharge	-	-	-
(viii)	Interest for creation of pension fund	485	9,485	9,971
(ix)	Fringe benefit Tax	-	-	-
(h)	<b>Foreign Exchange Rate Variation on Loan repayments [Form 1.17 d]</b>	-	-	-
(i)	<b>Depreciation</b>	<b>9,406</b>	<b>41,975</b>	<b>51,381</b>
(j)	<b>Advance against Depreciation [Form 1.17 e]</b>	-	-	<b>19,851</b>
(k)	<b>Bad Debts (see regulation 5.10.1)</b>	-	<b>67</b>	<b>67</b>
(l)	<b>Other Expenses</b>	-	-	-
(m)	<b>Intangible Assets written off</b>	-	-	-
(n)	<b>Taxes on Income/ Profit</b>	-	<b>2,425</b>	<b>2,425</b>
<b>(o) Others to be specified, if any</b>				
(i)	Loss of materials by pilferage	-	-	-
(ii)	Loss of obsolete store materials	-	-	-
(iii)	Compensation to staff on injury/death/damages	-	-	-
(iv)	Compensation to outsiders on injury/death/damages	-	-	-
(v)	Compensation to Power traders	-	-	-
(vi)	Loss on demolition, retirement of Fixed Asset	-	-	-
	<b>Total Others</b>	-	-	-
	<b>Overall (1.17)</b>	<b>13,517</b>	<b>2,60,687</b>	<b>2,94,055</b>

## Note:

\*\*\* For O&M expenses shown under Generation head, For O&M expenses for Rammam, Jaldhaka, PPSP and Small Hydro power plants, claim made at normative level as allowed in ARR and for Solar claim is made at actuals

## 1.17 a Interest on Temporary Accommodation

Particulars	Rs. In Lakhs
	2021-22 Actual
Opening Balance	0
Repayment for the year	0
Closing Balance	0
Interest on Temporary Accommodation	0
Total	0

## 1.17 b Interest on Working Capital

Particulars	Rs. In Lakhs
	2021-22 Actual
Working Capital:	
A. Total Variable cost as per FPPCA application and Fixed cost as per APR application	24,87,992
B1. Less: Depreciation	51,381
B2. Less: Deferred Revenue Expenditure	
B3. Less: Return on Equity	38,574
B. Total deductions: (sum B1:B3)	89,955
C. Allowable Gross Sales for Working Capital	23,98,037
D. Allowable Working Capital @10% on C	2,39,804
Security deposit from consumer utilized as working capital as per directive	4,45,659
Balance requirement of working capital	-
E. Interest at State Bank Short Term PLR rate or at actual rate of borrowing, whichever is less	6.76%
F1. Interest admissible on Working Capital	-
F2. Interest incurred on short term loan taken as Working Capital as per Annual Accounts	

**NOTE 1** Variable cost includes cost relating to own consumer & licensee as per FPPCA application 2021-22 alongwith power purchase cost related to sale to other than consumer & licensee.

**NOTE 2** Fixed cost does not include interest on working capital

*Sudipto Thakur*  
Chief Engineer (Regulation)  
Regulation Department  
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## 1.17 c Other Finance Charges

Particulars	Rs. in Lakhs
	2021-22 Actual
Guarantee Commission	-
Front-End Fees	-
Bank Charges	1,831
Public Deposit and Advance against Electricity Bill	-
L/C Opening charges	-
Fees and Expenses for Restructuring	-
Cost of Hedging	-
Transaction Cost on capital bonds	17
Interest expense on liability for Purchase of Power	102
Notional interest on govt. loan	7,059
Interest expense on liability for Capital supplies/ works	1,826
Less: Interest accrued on non-current Power Purchase liability	(102)
Less: Notional interest on govt. loan	(7,059)
Less: Interest accrued on non-current Capital Liability	(1,826)
Others:	-
i) Penal interest on Capital Liabilities	-
ii) Interest On GPF	-
iii) Interest on arrear pay	-
iv) Banking Cash Transaction Tax	-
v) Bank Charges for Temporary Accommodation (NHPC Bill Discounting)	1,656
vi) Interest on REC Loan (Pre-payment interest)	3,034
vii) Other finance charges for Working Capital Loan	3,652
Sub Total	-
<b>Overall</b>	<b>10,189</b>

## 1.17 d Foreign Exchange Rate Variation (FERV) - Yearwise

Particulars	Rs. in Lakhs
	2021-22 Actual
Loan 1	0
Loan 2 and so on	0
Overall	0

*Sudipta Mukherjee*  
 Chief Engineer (Regulation)  
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**Advance against Depreciation**

1.17 e

Particulars	Rs. In Lakhs
	2021-22 Actual
1. Repayment as per Form C	1,39,656
2. Depreciation as per Form B	51,381
3. Additional Fund requirement (1-2, if 1>2)	88,275
4. Maximum ceiling of Advance depreciation	19,851
5. Advance against depreciation (lower of 3 & 4)	19,851

1.17 f

**Insurance Premium Payable**

Particulars	Rs. In Lakhs
	2021-22 Actual
Insurance	1,557
Overall	1,557

1.17 g

**Interest Credit**

Particulars	Rs. In Lakhs
	2021-22 Actual
1. Depreciation as per Form B	51,381
2. Repayment as per Form C	1,39,656
3. Excess Fund created (1-2, if 1>2)	-
4. Weighted average rate of interest of existing loan	9.95%
5. Interest credit	-
Overall	-

Note: Interest Credit will be allowed during the the period of Loan repayment only

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## 1.17 h Break-up of Employee Cost

Category	Sl. No.	Particulars	Small Hydro		PPSP	Jaldhaka Stage - I	Rammam	Solar	Distribution		Total		
			Prior period payment made 2021-22	2021-22					Prior period payment made 2021-22	2021-22	Prior period payment made 2021-22	Prior period refund in 2021-22	Payment for 2021-22
A	1	Salary and Wages											
	a	Basic Pay & Overtime	0	1241	1128	313	503		0	64403	0	0	67588
	b	Dearness Allowances	0	571	536	140	240		0	31031	0	0	32519
	c	Other Allowances	0	249	269	123	240		0	12898	0	0	13779
	d	Less capitalisation	0	(101)	(90)	(29)	(51)		0	(5094)	0	0	(5365)
		Total	0	1961	1843	548	932	0	0	103238	0	0	108521
	2	Statutory Retirement Benefit											
	a	Gratuity	0	0	0	0	0		0	3603	0	0	3603
	b	Company's contribution to PF	0	16	15	4	7		0	988	0	0	1030
	c	Company's contribution to Pension Scheme	0	67	65	21	37		0	73505	0	0	73695
		Total	0	84	80	25	44	0	0	78096	0	0	78328
	3	Statutory Bonus and Ex-Gratia	0	21	18	6	12		0	1528	0	0	1585
	4	LTC	0	12	8	0	3		0	584	0	0	608
	5	Leave Encashment	0	119	70	12	8		0	2669	0	0	2878
	6	Workmen and staff welfare expenditure	0	129	59	42	91		0	2518	0	0	2839
	7	Others, if any (see Note 1)	0	0	0	0	0		0	9	0	0	9
	8	Director's Sitting Fee (see Note 2)								11			11
	9	Reimbursement of Medical Expenses	0	26	14	2	18		0	1389	0	0	1448
	10	Leave Encashment (15 days)	0	61	54	13	20		0	3106	0	0	3254
	11	Payment under Workmen Compensation Act	0	0	0	0	0		0	0	0	0	0
	12	Uniform and Livery Expenses	0	0	0	0	3		0	1	0	0	5
	13	Premium for GRP Scheme	0	26	2	1	1		0	334	0	0	363
		Total	0	394	224	75	156	0	0	12150			12999
B		Contribution for shortfall in interest of PF fund, if any	0	0	0	0	0		0	0	0	0	0
C		Production / Performance incentive to employees	0	0	0	0	0		0	0	0	0	0
		Total	0	0	0	0	0	0	0	0			0
D		EMP CST-PREVIOUS YRS (8305001)											0
<b>TOTAL</b>			<b>0</b>	<b>2439</b>	<b>2147</b>	<b>648</b>	<b>1132</b>	<b>0</b>	<b>0</b>	<b>193483</b>	<b>0</b>	<b>0</b>	<b>199849</b>

Note :

- Others in sl no 7 above is expenditure on account of compensation to staff on account of injury/ death / damages and Transfer Grant
- Refer Note 38C Of Annual Accounts 2021-22

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Form: 1.17 i

## Details of Arrear against wage revision

Category	Sl. No.	Particulars	Arrear Annual expenditure for the year concerned
<b>A</b>	<b>Expenditure in Rupees in Lakh</b>		<b>No arrear for FY 2021-22</b>
	1	Salary and Wages	
	a	Basic Pay	
	b	Dearness Allowances	
	c	Other Allowances	
	2	Statutory Retirement Benefit	
	a	Gratuity	
	b	Company's contribution to PF	
	c	Company's contribution to Pension Scheme	
	3	Statutory Bonus and Ex-Gratia	
	4	LTC	
	5	Leave Encashment	
	6	Workmen and staff welfare expenditure	
	7	Others, if any	
<b>B</b>	<b>Contribution for shortfall in interest of PF fund, if any</b>		
<b>C</b>	<b>Production / Performance incentive to employees</b>		
<b>D</b>	<b>Number of Personnel</b>		

*Sudipta Mandal*  
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Form: 1.17 j

Statement of penalty/fine/cess etc.

Name of Statute	Type of Payment	Amount	Reasons	Remedial measures
Environmental (Prevention) Act, 1986				
Income Tax Act, 1961				
Electricity Act, 2003				
Others				

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## Form 1.17 (k): Cost of Outsourcing

Rs in lakhs

Heads			Scope of work and service to be provided *
<b>a) Administrative &amp; General Expenses</b>	<b>2021-22</b>		
	<b>Excluding Manpower</b>	<b>Manpower related</b>	
Call Center (ZCC/CRC) as per SOP regulation	-	2,793	Cost of operation of Consumer call centre.
Security Expenses	-	3,823	Cost of Security service
Data Warehousing	-	-	Cost of maintaining data repository for call center and other consumer service
<b>b) Repair &amp; Maintenance Expenses -</b>			
Line Maintenance	-	18,643	Cost of maintenance of overhead / underground network.
Substation Maintenance	-	4,231	Cost of operation and maintenance of 33/11 KV substations
Mobile Maintenance Service	-	19,231	Cost of breakdown maintenance service.(MCSU as per SOP regulation)
<b>c) Operational Services</b>			
Collection Franchisee	-	1,186	Service charge for collection made through automated collection kiosks and
Franchisee	-	-	Service Charge for NTESS, a distribution franchisee of WBSEDCL
Meter Reading & Bill Distribution	-	14,957	Cost of meter reading and bill delivery logistic service
<b>d) Management Services</b>			
Back office job	-	214	Cost of Back Office Job.
<b>e) Others</b>			
New Manpower Recruitment Cost		320	
<b>Total</b>	-	<b>65,398</b>	

*Seetapriya Mukherjee*  
 Chief Engineer (Regulation)  
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Form 1.18 : Original Cost of Fixed Assets

		Rs. in Lakhs
Ref.	Particulars	2021-22
		Actual
(1)	Generation Assets	
	TCF	14,766
	Rammam HEP	22,254
	Jaldhaka HEP	14,734
	Other Mini Micro Hydel	11,104
	Purulia Pump Storage	2,22,646
	Solar	44,008
	Total	3,29,512
(2)	Distribution Assets	27,08,073
(3)	Supply Assets	3,658
(4)	Metering Assets	1,56,401
(5)	Other Assets	70,769
(6)	Transmission Assets	-
(7)	Less : Contribution from consumers including advance from them and including grants and subsidies	19,91,790
(8)	Total (1+2+3+4+5+6-7)	12,76,624
Notes		
(1)	Generation assets will include assets up to Station Bus bar. Transmission assets will be from Station Bus bar to EHT/HT sub-station. Distribution assets will be assets up to metering point of sales excluding cost of meters.	
(2)	Approval of capital expenditure is to be obtained from the Commission for the ensuing year (whether included in fixed assets or capital work-in-progress) where such capital expenditure on assets individually or in aggregate exceeds the limits specified in Regulation 2.2.4.	
(3)	The original value of the assets, if any, retired or not available for use is not to be included. Figures for ensuing year, current year and previous year of the assets so retired/ likely to be retired/ not available for use are to be submitted.	
(4)	Period during which the units of the operational power stations were scheduled to be under planned repairs and maintenance or were under major repairs other than the above, as contained in Form-A may be submitted.	
(5)	In case the cost of any assets has been revalued, or purchased on revalued cost basis, the details thereof, along with the year of revaluation are to be submitted.	
(6)	Foreign exchange variation charged/adjusted, if any, is to be separately indicated.	
(7)	Figures for capital expenditure for projects under construction are to be separately indicated.	
(8)	Original cost of the asset at the beginning of the year and addition/retirements during the year are to be separately shown for the previous year, current year and the ensuing year.	
(9)	Overall amount of expenditure is to be limited to the amount approved by the Commission	
(10)	Any expenditure on replacement arising out of renovation and modernisation or extension of like of old fixed assets is to be dealt as specified in the regulation 4.2.4	
(11)	Financial statements upto 31.03.2016 were prepared as per Indian GAAP. As the Company has migrated to Ind-AS with transition date being 01.04.2015, in compliance with Ind-AS 101- First time adoption of Indian Accounting standards, carrying value of property, plant and equipments as recognised in the financial statements has been used as deemed cost on the date of transition, resulting in reduction of Gross carrying amount of property, plant and equipments as compared to original cost of Fixed Assets in FY 2015-16.	



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## Form 1.18 a : Original Cost of Works in Progress

Ref.	Particulars	Rs. In Lakhs
		2021-22 Actual
(1)	<b>Opening Balance</b>	
	Plan	98,119
	Outside plan	98,517
	<b>Total</b>	<b>1,96,636</b>
(2)	<b>Additional Capital Expenditure for the year</b>	
	Plan	1,83,304
	Outside plan	1,04,961
	<b>Total</b>	<b>2,88,265</b>
(3)	<b>Amount transferred to Fixed Assets</b>	
	Plan	1,39,485
	Outside plan	79,870
	<b>Total</b>	<b>2,19,355</b>
(4)	<b>Closing Balance</b>	
	Plan	1,41,938
	Outside plan	1,23,608
	<b>Total</b>	<b>2,65,546</b>



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Form 1.18 b : Intangible Assets		
		Rs. In Lakhs
Ref.	Particulars	2021-22
		Actual
1.	Cumulative Opening Balance (Gross)	10860
2.	Cumulative Amount written off at the beginning of the year	0
3.	Cumulative Opening Balance (Gross) after write off in the beginning of the year	10860
4.	Cost incurred during the year	2010
5.	Gross Intangible Asset at the end of the year (1+ 4)	12870
6.	Amount written off during the year	0
7.	Cumulative amount written off at the end of the year	0
8.	Cumulative Closing Balance (Gross) (5-7)	12870



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## Form 1.18 c(I) : Investments

Rs. In Lakhs

Ref.	Particulars	2021-22
1	In Govt. Security	-
2	Share in Public Ltd Company	750
3	Fixed Deposit with Bank	91,096
4	Others	-
	<b>Total</b>	<b>91,846</b>

## Form 1.18 c(II) : Income from Investments

Rs. In Lakhs

Ref.	Particulars	2021-22
		Actual
1	In Govt. Security	0
2	Share in Public Ltd Company NTESSC	0
3	Fixed Deposit with Bank	880
4	Others**	12
	<b>Total</b>	<b>892</b>
Others include interest claimed against advance to DPL for Power Purchases		
**		



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## Form 1.19(a) : Capital Expenditure for the year

Ref.	Particulars	Rs. In Lakhs
		2021-22 Actual
<b>A</b>	<b>General Capital Expenditure</b>	
(1)	Generation Capital Expenditure Station wise	
	PPSP	
	Plan	0
	Outside Plan	40
	Sub Total	40
	Jaldhaka	
	Plan	0
	Outside Plan	151
	Sub Total	151
	Rammam	
	Plan	0
	Outside Plan	402
	Sub Total	402
	TCF	
	Plan	0
	Outside Plan	686
	Sub Total	686
	Other Hydel	
	Plan	0
	Outside Plan	6245
	Sub Total	6,245
	Rammam Intermediate Stage HEP	
	Plan	0
	Outside Plan	0
	Sub Total	-
	Turga Pumped Storage Project	
	Plan	0
	Outside Plan	0
	Sub Total	-
	Solar	
	Plan	6911
	Outside Plan	0
	Sub Total	6,911
	Overall Generation Capital Expenditure	
	Plan	6,911
	Outside Plan	7,524
	Total	14,435
(2)	Distribution Capital Expenditure(including RE)	
	Plan	130897
	Outside Plan	56918
	Total	1,87,815
	Overall Capital Expenditure	
	Plan	1,37,808
	Outside Plan	64,442
	Total	2,02,250
<b>B</b>	<b>Special Projects as per Note 2 of Form 1.18</b>	
	Generation	-
	Distribution	-
	Overall Special Projects	-
	Asset transferred from REDC& others	-
	Capital Expenditure (A+B)	2,02,250



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 Chief Engineer (Regulation)  
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## Form 1.19(b): Overall Capital Expenditure Programme

Rs. In Lakhs

Ref.	Particulars	Original Project Cost (as latest approved)	Cumulative Expenditure	2021-22
			Actuals	Actual
A	Capital Expenditure Plan for the existing on going Projects			
	Stationwise			
	Projectwise			

## Notes:

1. To be specified separately for the previous year(s), base year and the ensuing year(s)
2. Plan and Non-Plan expenditure are to be shown separately
3. Expenditure should include Interest during construction but to be indicated separately
4. For the Base year and ensuing year(s) which has already passed related to a control period, the actual expenditure is to be provided.



*Sudip Kumar Paul*  
 Chief Engineer (Regulation)  
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## Form 1.19(c): Project Specifications

Ref.	Name of the Project with brief description	As approved in Investment Plan		Latest approved revision		Target set upto last previous year	Target achieved upto last previous year	Cumulative Expenditure upto last previous year	Cumulative Expenditure upto last previous year	Reasons for variation	Estimated Target date of completion	Estimated Project Cost
		Target date of completion	Original Project Cost	Target date of completion	Original Project Cost			Actuals	As approved by the Commission			
	Projectwise											
(a)	Generation Capital Expenditure											
(b)	Transmission Capital Expenditure											
(c)	Distribution Capital Expenditure											
	Overall Capital Expenditure (A+B+C)											

## Notes:

1. Plan and Non-Plan expenditure are to be shown separately
2. Expenditure should include Interest during construction but to be indicated separately
3. The reasons for time over run and consequential cost over run are to be specifically mentioned. In the event of actual expenditure is more than the approved expenditure then separate approval is to be obtained from the commission as per these regulations.
4. For the Base year and ensuing year(s) which has already passed related to a control period, the actual expenditure is to be provided.



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**Form 1.20(a) : Equity Base**

Ref.	Particulars	Basis	Rs. In Lakhs		
			2021-22		
			Generation Actuals	Distribution Actuals	Total Actual
1	Actual equity base at the beginning of the year		11,358	2,29,103	2,40,461
2	Admissible equity base at the beginning of the year		-	2,29,103	2,29,103
3	Actual addition/deletion to equity base during the year		7,050	9,353	16,403
4	Actual equity base at the end of the year	(1+3)	18,408	2,38,456	2,56,864
5	Net Addition to the original cost of fixed assets during the year		-	2,19,355	2,19,355
6	Less: Asset created in terms of regulation 5.15.1(iv), if any		-	-	-
7	Net addition to the original cost of fixed assets during the year other than assets created in terms of regulation 5.15.1 (iv)	Note 1 of Annual Accounts	-	2,19,355	2,19,355
8	Normative Equity %		30%	30%	30%
9	Normative addition to equity base	(8x7)	-	65,807	65,807
10	Addition to equity base considered for the year	lower of 3 and 9	-	9,353	9,353
11	Add: Asset created in terms of regulation 5.15.1(iv)		-	-	-
12	Addition in equity base during the year for the purpose of computation of return	(10+11)	-	9,353	9,353
13	Admissible equity base at the closing of the year	(2+12)	-	2,38,456	2,38,456
14	Average admissible equity base for allowing returns	(2+13)/2	-	2,33,780	2,33,780

**Form 1.20 (b) Equity considered as normative Debt**

a	Opening Balance		-	-	-
b	Addition for the year		-	-	-
c	Normative loan considered for the year	c=a+b	-	-	-
d	Average normative loan for the year	d=(a+c)/2	-	-	-



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**Form 1.21: Special Allocations**

		Rs. In Lakhs	
Ref.	Particulars	2021-22	
1	Special allocations	-	



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**Form 1.22 : Return on Equity**

Ref.	Particulars	Basis	Rs. In Lakhs		
			2021-22		
			Generation Actual	Distribution Actual	Total Actual
(1)	Average Equity Base	Form 1.20 (a)	-	2,33,780	2,33,780
(2)	Rate of Return	For Generation function: 15.5% For Generation function: 16.5%	15.50%	16.50%	
(3)	Return on equity		-	38,574	38,574



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**Form 1.23 : Permitted Incentive**

Ref.	Particulars	Basis	One
			Actuals
			2021-22
(1)	Incentive for Generation		
a	Sent Out Units		
b	Target PLF		
c	Units to be sent out at target PLF		
d	Additional Units, if >0	$d = a - c$ in MU	
e	Incentive Rate for additional generation	Paise/ kWh	
f	Incentive for additional generation	$f = d \times e$	
(2)	Incentive for Hydropower generating stations.		
(i)	Capacity Index achieved		
(ii)	Normative Capacity Index		
(iii)	Excess capacity index achieved over target, if >0		
(iv)	Annual fixed charges		
(v)	Incentive for additional capacity index achieved		
(3)	Incentive for Transmission		
(i)	Annual Availability		
(ii)	Target Availability		
(iii)	Excess availability over target, if >0	$(iii) = (i - ii)$	
(iv)	Equity	Form 1.20 a	
(v)	Incentive for additional availability	$(v) = (iv) \times (iii)$	

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*Sudip Kumar*



**Form 1.24 : Benefits passed on to consumers**

Ref.	Particulars	Rs. In Lakhs	
		2021-22	
		Actual	
(1)	Share of benefit from sale to others	50%	
	a) Sale of power to person other than consumer and licensee (MU) including transmission loss	7,688.072	
	b) Notional sale of power against Swap Out (MU)	-	
(2)	Total Sale (MU) : $A=a+b$	7,688.072	
	c) Sale of power to person other than consumer and licensee (Rs. lakhs) (*)	3,02,116	
	d) Notional sale of power against Swap Out (Rs. lakhs)	-	
(3)	Total Sale (Rs. Lakhs) : $B=c+d$	3,02,116	
(4)	e) Average purchase price ( Paise/ unit) for (1)a)	224.91	
	f) Average purchase price ( Paise/ unit) for (1)b)		
	g) Cost of power of sale in 1 (a) above (Rs Lakhs)	1,72,912	
	h) Cost of power of sale in 1 (b) above (Rs Lakhs)	-	
	i) Other charges for such sale (Rs Lakhs) *	20,557	
(5)	Total cost of sale (Rs in lakhs) (f+g+h)	1,93,469	
(6)	Amount of gain (+) / loss (-) derived from such sale (Rs in Lakhs ) (3-5)	1,08,647	
(7)	Benefits passed on to the consumer (Rs. Lakhs) (1x6)	54,324	

**Notes :** (\*) Please refer Note 31 of Annual Accounts 2021-22: Revenue from Sale of Power

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## Form 1.25 : Receipts from Sale of Energy

Rs. In Lakhs

Ref.	Particulars	2021-22	Basis
		Actual	
	Receipts from Sale of Energy	23,17,094	Ref: Note 31 of Annual Accounts of WBSEDCL for 2020-21



*Sudip B. Mukherjee*  
 Chief Engineer (Regulation)  
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## Form 1.26 : Income other than sale of Energy

Rs. In Lakhs

Ref.	Particulars	2021-22	Remarks
		Actual	
A.	Other Income derived from		
(i)	Rental of meters and other apparatus hired out	29,482	Note 32 of Annual Accounts
(ii)	Sale and repair of lamp and other apparatus	-	
(iii)	Dis-connection & Re-connection Charges	2,357	Note 32 of Annual Accounts
(iv)	Income from Investments and Bank Balances	892	Note 33A of Annual Accounts
(v)	Surcharge for Late Payments	32,315	Note 32 of Annual Accounts
(vi)	Income from jobs at consumer's premises	38	Note 32 of Annual Accounts
(vii)	Transmission/Wheeling charges	3,452	Note 32 of Annual Accounts
(viii)	Reactive energy charge		
(ix)	Surcharge under Section 42		
(x)	Additional Surcharge under Section 42		
(xi)	Other Business Income to the extent to be passed on consumer		
(xii)	Other General receipts arising from and ancillary or incidental to the business of electricity	4,850	Note 33 of Annual Accounts
(xiii)	Other comprehensive income - Remeasurement of post-employment benefit obligations		
(xiv)	Interest received on account of tariff revision	-	
	Sub-Total (i to xiv)	73,386	
B.	Net receivable UI Charges for the previous year	(14,497)	As per Note 32 DSM receivable & 34A DSM Payble of Annual Accounts 2021-22

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**Form 1.27 : Wheeling Charge**

Ref.	Particulars	Unit	Rs. In Lakhs
			2021-22 Actual
	<b>Wheeling Charge</b>		
1	Employee Cost		193483
2	Cost of Outsourcing		65257
3	Operation and maintenance		38936
4	Complaint Management		298
5	Rates & Taxes		18935
6	insurance		254
6	Interest		56570
7	Interest for creation of Pension Fund		9485
8	Foreign Exchange Rate Variation		0
9	Other Financing Charges		9693
10	Interest on Security Deposits		25513
11	Interest on Working Capital		0
12	Lease Rental		2022
13	Depreciation		41975
14	Advance against depreciation		0
15	Intangible Asset Write Off		0
16	Reserve for unforeseen exigencies		0
17	Bad Debt		10723
18	Fringe Benefit Tax		0
19	Normative Return		38574
20	Permitted Incentives		0
21	Special Allocations		0
22	Taxes on Income/ Profit		2425
23	Intangible asset		0
24	Others		7805
(i)	Gross total expenses (sum 1:24)		521947
25	Less: Other income (reduced by Receipt from Wheeling Charges)		69934
26	Less: Interest credit on Depreciation		0
27	Less: Net receivable UI Charges for the previous year		0
28	Less: Others, if any, to be specified		0
(ii)	Gross Deductions (sum 25:28)		69934
A.	Net Charges (i-ii)		452013
a.	Units sold to own consumers and licensee	MU	33301.19
b.	Units wheeled	MU	138.9
B.	Overall Units (a+b)	MU	33440.13
C.	Wheeling charge rate (A/B)	P/kWh	135.17

Note: Only the Other income associated with distribution has been considered

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## Form: 1.28: Statement showing status of FPPCA claim

Sl No.	FPPCA claim application submitted but order is yet to be issued by the Commission		FPPCA claim application is yet to be applied		
	Related Year	Date of submission	Related Year	Expected Date of submission	Reasons of delay against regulation 2.8.7.2
1	2020-21	8-Jun-22	No FPPCA claim application is due		
2	2021-22	18-Nov-22			

*Sudipto Mukhopadhyay*  
 Chief Engineer (Regulation)  
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**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
<b>I. Jaldakha Hydel Project, Stage - I ( Capacity 4 X 9 MW )</b>								
Unit - 1	2021-22	Planned	1047.42	Annual maintenance of the units is normally carried out in the month of January /February.				
		Forced	0.0					
Unit - 2	2021-22	Planned	1047.42					
		Forced	0.0					
Unit - 3	2021-22	Planned	1047.42					
		Forced	0.0					
Unit - 4	2021-22	Planned	1047.42					
		Forced	00:00					
<b>II. Jaldakha Hydel Project, Stage - II ( Capacity 2 X 4 MW )</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units is normally carried out in the month of January /February.				
		Forced	5110.47					
Unit - 2	2021-22	Planned	1714.67					
		Forced	2026.92					



*Sudipta Mukhopadhyay*  
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**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
III. Rammam Hydel Project ( Capacity 4 X 12.75 MW )								
Unit - 1	2021-22	Planned	318.13	Annual maintenance of the units are carried out one by one during lean period i.e. November to March .				
		Forced	11.83					
Unit - 2	2021-22	Planned	0.0					
		Forced	3757.6					
Unit - 3	2021-22	Planned	206					
		Forced	49.01					
Unit - 4	2021-22	Planned	0.0					
		Forced	360.75					
IV. Teesta Canal Fall Hydro Electric Project, PS-I ( Capacity 3 X 7.5 MW )								
Unit - 1	2021-22	Planned	1158.92	Annual maintenance of the units are carried out one by one during lean period i.e. November to March or as per the shutdown of Canal taken by irrigation & waterways Department.				
		Forced	3254.63					
Unit - 2	2021-22	Planned	1158.92					
		Forced	2788.93					
Unit - 3	2021-22	Planned	1158.92					
		Forced	4525.23					





**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
<b>V. Teesta Canal Fall Hydro Electric Project, PS-II ( Capacity 3 X 7.5 MW )</b>								
Unit - 1	2021-22	Planned	1155.5	Annual maintenance of the units are carried out one by one during lean period i.e. November to March or as per the shutdown of Canal taken by irrigation & waterways Department.				
		Forced	1558.08					
Unit - 2	2021-22	Planned	1155.5					
		Forced	1559.83					
Unit - 3	2021-22	Planned	1155.5					
		Forced	1559.33					
<b>VI. Teesta Canal Fall Hydro Electric Project, PS-III ( Capacity 3 X 7.5 MW )</b>								
Unit - 1	2021-22	Planned	2569.92	Annual maintenance of the units are carried out one by one during lean period i.e. November to March or as per the shutdown of Canal taken by irrigation & waterways Department.				
		Forced	275.95					
Unit - 2	2021-22	Planned	6627.92					
		Forced	24					
Unit - 3	2021-22	Planned	6627.92					
		Forced	24					



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**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
<b>VII. Rinchington Hydro Electric Project, (Capacity 2 X 1 MW)</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to March ..				
		Forced	1803.42					
Unit - 2	2021-22	Planned	00:00					
		Forced	1836.58					
<b>VIII. Little Rangit Hydro Electric Project, (Capacity 2 X 1 MW)</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to March .				
		Forced	26.42					
Unit - 2	2021-22	Planned	00:00					
		Forced	00:00					
<b>IX. Fazi Hydro Electric Project, [Capacity (2 X 0.4) + (1 X 0.448) + (1 X 1.2) MW]</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to March .				
		Forced	806.17					





**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
<b>X. Sidrapong</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to March .				
		Forced	140.3					
Unit - 2	2021-22	Planned	00:00					
		Forced	00:00					
Unit - 3	2016-17	Planned	00:00					
		Forced						
<b>XI. Mangpo-Kalikhola (3 x 1 MW)</b>								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to March .				
		Forced	72.15					
Unit - 2	2021-22	Planned	00:00					
		Forced	2058.18					
Unit - 3	2021-22	Planned	00:00					
		Forced	7.55					



*Sudipta Mukhopadhyay*  
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 Regulation Department  
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**Form-A**

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
XII. Messanjore (2 x2 MW)								
Unit - 1	2021-22	Planned	00:00	Annual maintenance of the units are carried out one by one during lean period i.e. November to march every year and this may be treated as planned maintenance.				
		Forced	00:00					
Unit - 2	2021-22	Planned	00:00					
		Forced	00:00					
XIII. Purulia Pump Storage Project (4x225 MW)								
Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per	Period of last major	Period of last major	Remarks
Unit - 1	2021-22	Planned	15 Hrs	GCB replacement work from 09:00 Hrs on 30.09.2021 and continued.	30.12.2022 to 04.01.2023	30.09.2021 to 02.10.2021	30.09.2021 to 02.10.2021	GCB Overhauling
			40 Hrs 10 Mins	GCB replacement work from 09:00 hrs on 30.09.2021 (previous month) to 16:10 hrs on 02.10.2021.				
		Forced						





## Form-A

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
Unit - 2	2021-22	Planned	352 Hrs	Overhauling work from 08:00 hrs on 16.11.2021 and continued.	30.07.2023 to 04.03.2023	30.04.2022 to 04.05.2022	30.04.2022 to 04.05.2022	GCB Overhauling
			744 Hrs	Overhauling work from 08:00 hrs on 16.11.2021 (previous month) and continued.				
			744 Hrs	Overhauling work from 08:00 hrs on 16.11.2021 (i.e. on month of Nov 21 ) and continued.				
			672 Hrs	Overhauling work from 08:00 hrs on 16.11.2021 (i.e. on month of Nov 21 ) and continued.				
			353 Hrs 20 Mins	Overhauling work from 08:00 hrs on 16.11.2021 (i.e. on month of Nov 21) and completed on 15.03.2022 at 17.20 hrs.				
Unit - 3	2021-22	Forced	-					
		Planned						
Unit - 3	2021-22	Forced	23 Hrs 56 Mins	GCB malfunctioning (CB open control delay) from 12:49 hrs on 15.09.2021 to 12:45 hrs on 16.09.2021.	08.08.2023 to 12.08.2023	08.05.2022 to 12.05.2022	08.05.2022 to 12.05.2022	GCB Overhauling
		Planned						
Unit - 4	2021-22	Forced	64 Hrs 49 Mins	Failure of hydraulic system of GMMC HMB 4.5 drive from 02:31 hrs on 13.09.2021 to 19:20 hrs on 15.09.2021.	22.07.2023 to 26.07.2023	22.04.2022 to 26.04.2022	22.04.2022 to 26.04.2022	GCB Overhauling
		Planned						



*Sudipta Mukhopadhyay*  
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## Form-A

Planned repairs and maintenance / forced outage / major repairs for generation plants (Station-wise vis-à-vis yearwise)								
Unit No.	Outage	Nature (Planned/ Forced)	Duration in Hrs.	Summary Details	Next period as per schedule of	Period of last major maintenance	Period of last major maintenance	Remarks
<b>XIV. Teesta Canal Bank Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned	10.56					Due to unavailability of grid from S/S end
		Forced						
<b>XV. Chharah Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	52					
<b>XVI. santaldih Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to plant shut down.
		Forced	8760					
<b>XVII. Khemasuli Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	56					
<b>XVIII. Salboni Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	135.20					
<b>XIX. Teesta canal (Haptiagach) Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned	10.56					Due to unavailability of grid from S/S end
		Forced						
<b>XX. Dhaka - I Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	60.38					
<b>XXI. Dhaka - II Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	83					
<b>XXII. Chalbalpur Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to unavailability of grid from S/S end
		Forced	230					
<b>XXIII. Mejia Solar PV Project (10 MW)</b>								
10 MW project	2021-22	Planned						Due to plant shut down.
		Forced	8760					



*Sudipto Kundu*  
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 Regulation Department  
 WBSEDCL



Details of Depreciation chargeable to revenue account for the year (Yearwise)  
Year-2021-22

Form-B

(Rs. Lakh)

Particulars	Opening Balance of Original Cost of Assets	Additions of Original Cost of Assets during the year put into use	Assets fully depreciated			Assets to be depreciated during the year	Value of Assets classified into different rates								Retirements of Original Cost of Assets during the year	Adjustment made to make the asset register as IND AS Compatible	Closing Balance of Original Cost of Assets
			Op bal	During	Cl. Bal		1.80%	2.57%	3.60%	6.00%	18.00%	Other rates, if any	Land - FH	Total			
<b>A. Generating Assets</b>																	
Cost	327758	1754	20271	1765	22036	325456	131444	119790	51482	8700	2606	9143	2291	325456	0		329512
Depreciation for the year							2366	3108	1951	522	469	990	0	9406	0		9406
<b>B. Transmission Assets</b>																	
Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0
Depreciation for the year							0	0	0	0	0	0					0
<b>C. Distribution Assets</b>																	
Cost	2507241	205740	166428	17833	184261	2689007	8919	31175	2636596	6036	142	0	6140	2689007	4907		2708073
Depreciation for the year						204914	159	793	94046	342	15	0		95355	0		95355
<b>D. Supply Assets</b>																	
Cost	3658	0	0	0	0	3658			3658					3658			3658
Depreciation for the year									116					116			116
<b>E. Metering Assets</b>																	
Cost	148414	8312	61407	44274	105681	112452	0	0	0	0	0	112452	0	112452	325		156401
Depreciation for the year							0	0	0	0	0	11999		11999	134		11865
<b>F. Other Assets</b>																	
Cost	69229	1540	3466	16453	19919	53573	9136	0	11206	5120	27368	0	743	53573			70789
Depreciation for the year							162	0	394	229	1581	0		2366			2366
<b>G. Intangible Assets</b>																	
Cost	10860	2010	2339	3940	6279	8930					2010			2010			12870
Depreciation for the year											1493			1493			1493
<b>Overall (Cost)</b>	<b>3067160</b>	<b>219355</b>	<b>253911</b>	<b>84265</b>	<b>338176</b>	<b>3193077</b>	<b>149499</b>	<b>150965</b>	<b>2702942</b>	<b>19856</b>	<b>32125</b>	<b>121596</b>	<b>9174</b>	<b>3186157</b>	<b>5232</b>	<b>0</b>	<b>3281285</b>
<b>Overall (Depreciation for the year)</b>							<b>2687</b>	<b>3901</b>	<b>96507</b>	<b>1093</b>	<b>3558</b>	<b>12989</b>	<b>0</b>	<b>120735</b>	<b>134</b>	<b>0</b>	<b>120601</b>

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Regulation Department  
WBSEDCL



Form - C

WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LTD.																	
STATEMENT OF LOANS AND CALCULATION OF INTEREST THEREON FOR THE YEAR 2021-22																	
(Rs. in Crores)																	
Sl No.	Source of Loans	Sanction Amount of Loan	Original Amount of Loan	Outstanding Balance at the beginning of the year	Normal rate of interest (% p.a.)	Penal rate of interest, if any (% p.a.)	Rebate (if any) for prompt payment (% p.a.)	Repayment due		Fresh Drawal, if any Amount/Date	Interest paid/payable				Balance at the close of the year	Specific Purpose of Loan	Remarks
								Date	Amount		Normal	Penal	Rebate	Total			
1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1)	On Capital Accounts																
A)	Secured Non-Convertible Redeemable Capital Bond																
i)	Secured Non-Convertible Redeemable Capital Bond (Series-I)	250.00	250.00	250.00	9.34%			Bullet repayment on maturity	0.00	0.00	23.35	0.00	0.00	23.35	250.00	For Different Capital Project	
ii)	Secured Non-Convertible Redeemable Capital Bond (Series-II)	250.00	250.00	250.00	9.34%			Bullet repayment on maturity	0.00	0.00	23.35	0.00	0.00	23.35	250.00	For Different Capital Project	
iii)	Secured Non-Convertible Redeemable Capital Bond (Series-III)	500.00	500.00	500.00	10.85%			Bullet repayment on maturity	0.00	0.00	54.25	0.00	0.00	54.25	500.00	For Different Capital Project	
	Total (A)	1000.00	1000.00	1000.00					0.00	0.00	100.95	0.00	0.00	100.95	1000.00		
B)	PFC - RAPDRP A & B																
i)	PFC - RAPDRP A (SCADA)	20.90	20.90	20.90	9.00%			Mnthly	0.00	0.00	1.88	0.00	0.00	1.88	20.90	For RAPDRP (SCADA) Project	
ii)	PFC - RAPDRP B	202.18	139.03	101.51	9.00%			Mnthly	5.03	0.00	11.39	0.00	0.00	11.39	96.48	For RAPDRP -B- Project	
iii)	Conversion of Overhead Distribution System to Underground at Krishnanagar & Chinsurah towns	60.48	0.00	0.00	9.83% - 10.15%			Mnthly	0.00	29.00	0.65	0.00	0.00	0.65	29.00	For Capital Works	
iv)	Strengthening of Distribution System works	487.59	0.00	0.00	10.15%			Mnthly	0.00	20.00	0.01	0.00	0.00	0.01	20.00	For Capital Works	
	Total (B)	771.15	159.93	122.41					5.03	49.00	13.93	0.00	0.00	13.93	166.38		
C)	REC Ltd																
i)	Improvement of the existing system by installation of HT Shunt Capacitor Banks in 83 nos. 33/11KV Sub-Stations catering 4 zones- Kolkata, Burdwan, Berhampore, Midnapore	19.87	14.81	1.48	10.50%			Qtrly	1.48	0.00	0.15	0.00	0.00	0.15	0.00	For Capital Works	
ii)	Equipment Purchase Loan (Year - 2011)	564.89	520.50	198.36	7.90% to 11.00%			Yrly	47.32	0.00	14.32	0.00	0.00	14.32	151.05	For Capital Works	
iii)	Intensive Electrification Scheme in 17 districts of West Bengal	968.51	966.50	735.27	10.50%			Yrly	735.27	0.00	35.26	0.00	0.00	35.26	0.00	For Capital Works	
iv)	RAPDRP Part B	509.69	389.01	329.57	10.08% to 11%			Yrly	23.62	0.00	32.99	0.00	0.00	32.99	306.95	For Capital Works	
v)	Distribution Projects under NEF Scheme	930.75	169.78	136.41	10.50% to 11.00%			Yrly	17.05	0.00	12.96	0.00	0.00	12.96	119.36	For Capital Works	
	Equipment Purchase Loan under NEF Scheme		633.87	393.55	10.50%			Yrly	57.70	0.00	38.96	0.00	0.00	38.96	335.85	For Capital Works	
vi)	ERP Project	124.03	106.23	106.23	10.40%			Yrly	10.62	0.00	10.91	0.00	0.00	10.91	95.61	For Capital Works	
vii)	Equipment Purchase Loan (Year - 2018)	713.58	694.35	694.35	10.25% to 11.00%			Yrly	0.00	0.00	74.39	0.00	0.00	74.39	694.35	For Capital Works	
viii)	Augmentation of Jaldhaka Hydro-Electric power plant by 9MW (1X 9MW) unit at Darjeeling District within the state of W.B.	19.40	17.72	3.10	10.50%			Qtrly	1.77	0.00	0.26	0.00	0.00	0.26	1.33	For Capital Works	
ix)	Renovation and Modernisation of 27 MW (3 X 9MW) of Jaldhaka Hydro-Electricity power plant at Darjeeling District within the state of west Bengal	62.03	59.81	11.96	10.50%			Qtrly	5.98	0.00	1.02	0.00	0.00	1.02	5.98	For Capital Works	
x)	DDUGJY Scheme	671.62	422.32	422.32	9.98% to 10.45%			Monthly	0.00	196.32	54.28	0.00	0.00	54.28	618.64	For Capital Works	
xi)	IPDS Scheme	458.68	250.00	250.00	10.36% to 10.45%			Monthly	0.00	166.39	31.64	0.00	0.00	31.64	416.39	For Capital Works	
xii)	REAPS I	90.91	90.91	77.28	10.41%			Monthly	9.10	0.00	7.61	0.00	0.00	7.61	68.18	For Capital Works	
xiii)	System Strengthening Scheme	610.39	124.61	124.61	10.41%			Monthly	0.00	111.00	17.12	0.00	0.00	17.12	235.61	For Capital Works	



Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL




STATEMENT OF LOANS AND CALCULATION OF INTEREST THEREON FOR THE YEAR 2021-22																	
(Rs. in Crores)																	
Sl No.	Source of Loans	Sanction Amount of Loan	Original Amount of Loan	Outstanding Balance at the beginning of the year	Normal rate of interest (% p.a.)	Penal rate of interest, if any (% p.a.)	Rebate (if any) for prompt payment (% p.a.)	Repayment due		Fresh Drawal, if any Amount/Date	Interest paid/payable				Balance at the close of the year	Specific Purpose of Loan	Remarks
								Date	Amount		Normal	Penal	Rebate	Total			
1	2	3	4	5	6	7		8	9	10	11	12	13	14	15	16	17
xiv)	Procurement and installation of Equipment for TG Unit in the Operation Power Plant at TCFHP- III, RHP - II & JHP - II	14.09	13.96	13.96	10.31% to 10.41%			Monthly	0.00	0.00	1.45	0.00	0.00	1.45	13.96	For Capital Works	
xv)	REAPS II	513.71	513.71	470.90	10.41%			Monthly	42.81	0.00	46.97	0.00	0.00	46.97	426.09	For Capital Works	
xvi)	Different Civil Works	248.88	46.75	46.75	10.00% to 10.41%			Monthly	0.00	29.90	6.44	0.00	0.00	6.44	76.66	For Capital Works	
xvii)	Different Hydel Works	106.80	18.11	18.11	10.00% to 10.58%			Monthly	0.00	13.22	2.42	0.00	0.00	2.42	31.34	For Capital Works	
xviii)	HVDS Scheme	406.45	381.31	381.31	9.75%			Monthly	406.45	25.14	37.49	0.00	0.00	37.49	0.00	For Capital Works	
	IPDS DPL	9.32	0.00	0.00	9.75%			Monthly	0.00	8.00	0.04	0.00	0.00	0.04	8.00	For Capital Works	
	Different Capital Works i.r.o. PPSP and Massanjore Hydel Power Station.	54.05	0.00	0.00	10.25%			Monthly	0.00	2.17	0.00	0.00	0.00	0.00	2.17	For Capital Works	
	IPDS GIS S/S	13.50	0.00	0.00	9.75%			Monthly	0.00	10.00	0.05	0.00	0.00	0.05	10.00	For Capital Works	
	Distribution System Improvement Scheme (DSIS)	113.36	0.00	0.00	10.00%			Monthly	0.00	10.34	0.01	0.00	0.00	0.01	10.34	For Capital Works	
xix)	REC - Package		311.22	47.47	10.11%	2.00%		Monthly	27.13	0.00	23.94	0.00	0.00	23.94	20.34	For Capital Works	
xx)	REC - Taken over from WBREDCL		103.23	103.23	8.50%				0.00	0.00	0.00	0.00	0.00	0.00	103.23	For Capital Works	
	Total (C)	7222.51	5848.73	4566.23					1386.30	572.47	450.67	0.00	0.00	450.67	3752.40		
D)	New Project Loans																
	Loan from State Govt.		114.57	93.65	1.30% & 8.50%				5.23	0.00	1.71	0.00	0.00	1.71	88.42	For Capital Works	
	Total (D)		114.57	93.65					5.23	0.00	1.71	0.00	0.00	1.71	88.42		
E	Other FIs and Banks																
i)	WBIDFC Ltd. (Amphan)	240.00	0.00	0.00	8.60%			Qtrly	0.00	100.00	4.30	0.00	0.00	4.30	100.00	For Capital Works	
ii)	Bank of Baroda	630.23	0.00	0.00	7.65%			Yrly	0.00	630.23	24.17	0.00	0.00	24.17	630.23	For Capital Works	
	Total (E)	870.23	0.00	0.00					0.00	730.23	28.47	0.00	0.00	28.47	730.23		
	Interest Capitalised														-25.44		
	Total Capital Loan (A+B+C+D+E)	9863.89	7123.23	5782.29					1396.56	1351.70	595.74	0.00	0.00	595.74	5737.43		
2)	Pension Bond	1530.00	1530.00	1173.00	8.50%				0.00	0.00	99.71	0.00	0.00	99.71	1173.00		
3)	Normative Loan		0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total Bank & Financial Institutional Loan (1+2+3)	11393.89	8653.23	6955.29					1396.56	1351.70	695.45	0.00	0.00	695.45	6910.43		
	Interest Capitalised														0.00		
	Interest charged to revenue														670.00		

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



## Form E(A) : Sumarised Revenue Requirement- Part-A

Ref		MU	
		2021-22	
		Actual	
1	Generation including infirm power, if any][Form 1.3]	1827.377	
2	Auxiliary Consumption [Form 1.4(a)]	25.639	
3	Transformation Loss [Form 1.4(b)]	0.000	
4	Units delivered to system from generation (including infirm power, if any) [Form 1.5(a)]	1801.738	
(a)	At EHV	1712.258	
(b)	At 33 KV and below	89.480	
5	Quantum of infirm power included in 1	0.000	
5	<b>Energy Purchased [Form 1.6(a)]</b>	<b>46772.459</b>	
6	Energy Received for Wheeling [Form 1.9a]	138.937	
7	<b>Overall Gross Energy Input to WBSETCL System</b>	<b>48713.134</b>	
8	Unit sold to persons other than licensees or any consumers [Form 1.9b]	7688.072	
9	Units sold/ used for pumping energy of Pumped Storage Project at Bus bar [Form 1.4(b)]	1599.189	
10	Additional Units allowed by Commission for against pumping energy for pumped loss	56.286	
11	Total units sold/ used for pumping energy or pumped storage project (9+10)	1655.475	
12	Energy sold to other licensees [Form 1.9c]	52.255	
13	Additional Units allowed by Commission against Sales to other licensees	1.839	
14	Total units sold to other licensee (12+13)	54.094	
15	Net UI [ Actual drawal]	-99.262	UI (IN) =433.202 MU UI (OUT) =333.940 MU
16	<b>Total energy goed out of the system (8+10+11+14+15)</b>	<b>9298.379</b>	
17	Net Energy in System (7-16)	39414.756	
18	Units sold to consumers + Sale to DPSCL from Distribution System	33248.934	
19	Units wheeled [Form 1.9d]	138.241	
20	Addisional unit allowed for wheeling	0.696	
21	Units utilised in own premises including construction power	73.00	
22	Overall Utilisation (18+19+20+21)	33460.871	
23	Unutilised Units (17-22)	5953.885	
24	T&D Loss %	15.11	





## Form - E (B)

## Form E(B): Summarised Revenue Requirement - Part-B

(Rs. In Lakhs)

S. No	Particulars	Claimed for FY 2021-22						
		Generation			Distribution			Total
		Direct	Central	Total	Direct	Central	Total	
1.	Transmission Charge Paid to CTU							1,13,799
2.	Transmission Charge Paid to WBSETCL							1,47,447
3.	POSOCO Charge							258
4.	ERPC Charge							16
5.	SLDC Charge							2,217
6.	VARH Charges							553
7.	a) Employee Cost (Salaries)	4,998	1,368	6,366	92,332	1,01,151	1,93,483	1,99,849
	b) Employee Cost Others (specify)	-	-	-	-	-	-	-
	c) Adjustment of OCI and Other Provision Written Back with Employee Cost	949	-	-	28,850	-	-	-
	d) Net Employee Cost after adjustment of OCI and Other Provision Written Back	4,049	1,368	5,417	63,483	1,01,151	1,64,633	1,70,050
8.	Cost of outsourcing manpower related to distribution	-	-	-	64,293	964	65,257	65,257
9.	Cost of outsourcing excluding manpower for distribution	-	-	-	-	-	-	-
10.	Expenses for Complaint Management mechanism	-	-	-	298	-	298	298
11.	Insurance	0	1,303	1,303	1	253	254	1,557
12.	Rates & Taxes	525	-	525	15,493	3,442	18,935	19,460
13.	Operation and maintenance Expenses			5,656	31,787	7,149	38,936	44,591
	a) Interest	-	459	459	-	56,570	56,570	57,029
	b) Interest on Bond For creation of Pension Fund	-	485	485	-	9,485	9,485	9,971
	c) Foreign Exchange Rate Variation	-	-	-	-	-	-	-
14.	d) Other Financing Charges	-	496	496	-	9,693	9,693	10,189
	e) Interest on Security Deposits	-	-	-	-	25,513	25,513	25,513
	f) Interest on Normative Loan	-	-	-	-	-	-	-
	g) Interest on COVID Loan and Loan for AAMPAN restoration work.	-	-	-	-	-	8,163	8,163
15.	Lease Rental	-	-	-	10	2,012	2,022	2,022
16.	a) Depreciation (Tangible Assets)	-	9,406	9,406	-	41,975	41,975	51,381
	c) Advance against depreciation	-	-	-	-	-	-	-
17.	Principal Repayment of Bonds for Pension Fund	-	-	-	-	-	-	-
18.	Intangible Asset Write Off	-	-	-	-	-	-	-
19.	Water Cess	-	-	-	-	-	-	-
20.	Bad Debt	-	-	-	10,656	67	10,723	10,723
21.	Fringe Benefit Tax	-	-	-	-	-	-	-
22.	Minimum Alternative tax	-	-	-	-	2,425	2,425	2,425
23.	Reserve for unforeseen exigencies	-	-	-	-	-	-	-
24.	Demurrage	-	-	-	-	-	-	-
25.	Interest on working Capital	-	-	-	-	-	-	-
26.	Others, if not specified	(0)	-	(0)	7,805	-	7,805	7,805
27.	Net UI Payable / Deviation Charge	-	-	-	-	14,497	14,497	14,497
28.	<b>Total Expenditure (sum of 1:27)</b>	<b>16,177</b>	<b>14,885</b>	<b>24,457</b>	<b>3,15,007</b>	<b>3,76,346</b>	<b>6,62,504</b>	<b>7,00,779</b>
29.	Normative Return (pre-tax on 30% equity)	-	-	-	-	-	38,574	38,574
30.	Permitted Incentives	-	-	-	-	-	-	-
31.	<b>Permitted Return (28+29)</b>	-	-	-	-	-	<b>38,574</b>	<b>38,574</b>
32.	Special Allocations (Form 1.21)	-	-	-	-	-	-	-
33.	<b>Gross Fixed Cost (28+31+32)</b>	<b>16,177</b>	<b>14,885</b>	<b>24,457</b>	<b>3,15,007</b>	<b>3,76,346</b>	<b>7,01,078</b>	<b>8,03,794</b>



Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL

## Form – E (B)

## Form E(B): Summarised Revenue Requirement - Part-B

(Rs. in Lakhs)

S. No	Particulars	Claimed for FY 2021-22						
		Generation			Distribution			Total
		Direct	Central	Total	Direct	Central	Total	
	Carrying Cost for 2020-21							
34.	APR Order 2017-18							4,249
35.	APR Order 2018-19							9,346
36.	APR Order for 2019-20							14,146
37.	APR application for 2020-21							36,026
43.	Total Carrying cost (sum of 34:41)	-	-	-	-	-	-	63,767
	Total adjustment allowed for 2021-22 in the Tariff Order for 7th Control Period							
(i)	APR adjustment of WBSEDCL for 2015-16							1,13,655
(ii)	APR adjustment of WBSEDCL for 2016-17							67,986
(iii)	APR adjustment of WBSEDCL for 2017-18							50,929
44.								2,32,570
	a) Less : Other Income [Form 1.26]							73,386
45.	b) Less : Benefits passed on to Consumers [Form 1.24]			-			54,324	54,324
	c) Less : Interest credit on Depreciation							-
46.	Total Deductions from Gross Fixed Cost: (sum of 43a:43c)	-	-	-	-	-		1,27,710
47.	Net Fixed Cost (33+42-44)	16,177	14,885	24,457	3,15,007	3,76,346	7,01,078	7,39,353
48.	Total amount recoverable (=45)	16,177	14,885	24,457	3,15,007	3,76,346	7,01,078	7,39,353
								9,72,420



Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



FORM 6 : CASH FLOW STATEMENT		
		(in Rs. lakh)
Sl.	Item	2021-22
<b>1</b>	<b>Operating Income</b>	
	(a) Sale of Energy	2317093
	(b) Transmission Charges	0
	(c) Income other than sale of Energy (to be specified)	0
	(d) Export	281559
	(e) Other operating revenue	68052
	(f) Other income	154958
	(g) Adjustment for interest and finance charge, excess provision written-off and interest income	(168647)
	<b>Total (A)</b>	<b>2653015</b>
<b>2</b>	<b>Operating expenses (All revenue nature of expenses other than non-cash charges like Depreciation, DRE etc.)</b>	
	(a) Cost of Electrical Energy Purchased	2012236
	(b) Operating expenses (excluding Depreciation, FERV, Bad Debts & Intangible Asset written off)	344188
	<b>Total (B)</b>	<b>2356424</b>
	<b>(A) - (B)</b>	<b>296591</b>
<b>3</b>	<b>Increase / Decrease in current assets, current liabilities &amp; provisions in revenue account</b>	
	(a) Sundry Debtors	(40191)
	(b) Loans & Advances	(6446)
	(c) Current Liabilities	(140016)
	(d) Provisions	(48850)
	(e) Others - Inventories	110
	(f) Other Current Asset	(3102)
	<b>Total (C)</b>	<b>(238494)</b>
<b>4</b>	<b>Operating Cash Surplus (A) - (B) + (C)</b>	<b>58097</b>
<b>5</b>	<b>Utilisation of operating cash surplus (Sources to meet operating cash shortfall)</b>	
	<b>Addition in Capital Fund</b>	
	(a) Additional own fund brought in	11500
	(b) Additional borrowings	130270
	(c) Additional Consumers' contribution and security deposits	86855
	(d) Use of operating surplus	0
	(e) Increase in liabilities for capital works	(12269)
	(f) Others	0
	<b>Total (a to f)</b>	<b>216355</b>
	<b>Utilization of Capital Fund</b>	
	(g) Increase in fixed capital expenses	305258
	(h) Loan repayment at actual	(76634)
	(i) Decrease in liabilities for capital works	(12269)
	(j) Additional investment	0
	(k) Any other item	0
	<b>Total (g to k)</b>	<b>216355</b>

## ANNEXURE-7

**West Bengal State Electricity Distribution Company limited**  
(A Government of West Bengal Enterprise)  
Vidyut Bhavan, Block-DJ, Sector-II, Bidhannagar, Pin-700091



### **Gist of Applications for Fuel and Power Purchase Cost Adjustment and Annual Performance Review for the year 2021-22**

West Bengal State Electricity Distribution Company Limited (WBSEDCL) has submitted applications before the West Bengal Electricity Regulatory Commission (Commission) for Fuel and Power Purchase Cost Adjustment (FPPCA) and Annual Performance Review (APR) for the year 2021-22 on 18.11.2022 and ..... respectively. The applications have been admitted by the Commission on .....

The FPPCA and APR application submitted by WBSEDCL may be inspected at the office of the Commission at Plot No – AH/5, Premises No. MAR 16-1111, Action Area – 1A, New Town, Rajarhat, Kolkata 700163 (Telephone: [033] 2962-3756; Fax [033] 2962-3757; e-mail: [cp-wberc@gov.in](mailto:cp-wberc@gov.in)) and certified copies of the applications or part thereof may be obtained from the office of the Commission following the procedure as laid down in West Bengal Electricity Regulatory Commission (Conduct of Business) Regulations, 2013 during office hours on all working days up to .....

The FPPCA and APR application submitted by WBSEDCL along with Annexure and Appendices have been posted on the website of WBSEDCL at [www.wbsedcl.in](http://www.wbsedcl.in).

The suggestions and objections, if any, on the proposals contained in the FPPCA and APR application shall be submitted separately at the office of the Commission mentioned above by .....

This gist has been published with the approval of the Commission.

Place: Salt Lake, Kolkata

S. Mukhopadhyay

Date: .....

Chief Engineer (Regulation)

*S. Mukhopadhyay*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL





**West Bengal State Electricity Distribution  
Company Limited**



**Annexure – II  
of  
Volume-I**

**Auditor Certificate for Power Purchase & Transmission  
Charges 2021-22**

**Submitted to the  
HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**



**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 Bhattacharya*  
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 Corporation</b>		
7	Bandel TPS (BTPS)-I	13559	0
	Bandel TPS (BTPS)-II	45646	0
	Santalidih TPS (STPS)	127216	0
	Kolaghat TPS (KTPS)	151453	(85098)
	Bakreswar TPS (Stage -I & II)	252094	0
	Sagardighi TPS (Stage-I)	112936	0
	Sagardighi 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
	Maithan 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>



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

(B)	<b>TRANSMISSION CHARGES</b>		
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)	<b>Other Charges</b>		
32	ERPC Charges	16	0
33	SLDC Charges	2210	7
34	ERPC Reactive Energy Charges	553	0
	Sub-Total (C)	2779	7
	<b>TOTAL(A+B+C)</b>	<b>2114358</b>	<b>(99581)</b>
Total Expenditure (Current Power Purchases Cost + Arrear Cost)		2014779	





# West Bengal State Electricity Distribution Company Limited



## Annexure – III of Volume-I

Loss on obsolescence of Inventory during the year  
2021-22

Submitted to the  
**HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**

Loss on obsolescence of Inventory during the Financial Year 2021-22					
Material Code	Material Name	Quantity	Unit	Value of Inventory (Rs.)	Amount booked in Loss due to on obsolescence of Inventory (Rs.)
103011911	M.S. FLAT 75 X 8MM	450	MT	2,27,17,115	2,27,17,115
110020611	RAIL POLE 10-13M (60KG.)	622	MT	2,07,41,403	2,07,41,403
301011541	DTR 25KVA 11/0.433KV, 3PH O/D	582	NOS	1,73,15,263	1,73,15,263
501017921	1.1KVPVC4C 50SMM AL CABLE	69	KM	1,47,07,715	1,47,07,715
110030141	PCC POLE 8M	5,566	NOS	1,38,90,307	1,38,90,307
301012541	DTR 63KVA 11/0.433KV, 3PH O/D	205	NOS	1,18,88,279	1,18,88,279
504130432	GI STAY SET HT(1830X20MM)WRKG LD-7900KG	16,590	SET	1,12,41,595	1,12,41,595
503010811	G.I. WIRE 5MM.	250	MT	1,07,08,391	1,07,08,391
PP04241141	Shaft seal carbon packing	4	NOS	1,00,42,400	1,00,42,400
501025121	33KVXLPE3C300SMM CABLE	6	KM	86,23,180	86,23,180
103011211	M.S. FLAT 50 X 6MM	244	MT	86,17,242	86,17,242
102010611	M.S. CHANNEL 75 X 40MM	3,864	MT	71,43,171	71,43,171
110020411	RAIL POLE 12.8M (51.89KG)(105LBS)	173	MT	69,81,754	69,81,754
501015521	1.1KVPVC3.5C 95SMM AL CABLE	13	KM	66,42,337	66,42,337
508030341	11 KV DISC INS 45KN	1,91,703	NOS	66,02,701	66,02,701
501030321	1.1KVABCABLE 3CX50+1CX35 SQMM	35	KM	63,99,309	63,99,309
101011011	M.S ANGLE 50 X 50 X 6MM.	7,522	MT	61,31,223	61,31,223
304010532	ISL 11KV 200A TPGO	1,307	SET	59,86,411	59,86,411
301011041	DTR 16KVA 11/0.433KV, 3PH O/D	139	NOS	54,78,020	54,78,020
501040721	CuCONT.CAB1.1KV4C2.5SMM	26	KM	54,29,674	54,29,674
502010621	COND ACSR WSL 30SMM	445	KM	53,28,902	53,28,902
PP04035741	Upper insulating Ring	12	NOS	52,99,920	52,99,920
PP04051541	Insulation ring A90-A0R-0006	12	NOS	52,99,920	52,99,920
502010321	COND ACSR SQURL 20SMM	364	KM	48,52,803	48,52,803
312030641	POLEMNTD.CAPACITORSWITCHEQUPT11KV	2	NOS	72,452	72,452
504153641	SOCKET EYE FOR 70KN DISC	500	NOS	1,19,795	1,19,795
Total				22,82,61,285	22,82,61,285



*Sudesh Kumar Das*  
 Chief Engineer (Regulation)  
 Regulation Department  
 WBSEDCL



# West Bengal State Electricity Distribution Company Limited



Annexure – IV  
of  
Volume-I

Calculation of Carrying Cost for 2021-22

Submitted to the  
HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION

Computation of Carrying Cost for 2121-22 (Amount in Rs. lakh)							
Year	Carrying Cost		APR Order 2017-18	APR Order 2018-19	APR Order 2019-20	APR application for 2020-21	Total
	Admitted/Application Amount		57112.26	125618.84	190135.34	484214.71	857081.155
2021-22	Rate	7.44%					
	Amount	In Lakh	4,249.15	9,346.04	14,146.07	36,025.57	63,766.84

Note: 1 Rs. 2,05,885 lakh has been adjusted as the difference of security deposit from consumer utilized as working capital and allowable working capital during computation of carrying cost for the year 2021-22



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



# West Bengal State Electricity Distribution Company Limited



## Annexure – V of Volume-I

Sale of power to persons other than licensee & consumer  
including Transmission loss for the year 2021-22

Submitted to the  
HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION

Statement showing Sale of power to persons other than licensee/consumer including Transmission loss for the year 2021-22	
Name of the Entity	Quantum of power sold(MU)
Trader	0.000
IEX	7594.494
PXIL	93.577
<b>Total</b>	<b>7688.072</b>



*Sandeep Kumar Thakur*

Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL



# West Bengal State Electricity Distribution Company Limited



Annexure – VI  
of  
Volume-I

Outstanding Government Loan as on 31.03.2022

Submitted to the  
**HON'BLE WEST BENGAL ELECTRICITY REGULATORY  
COMMISSION**

Outstanding Govt Loan as on 31.03.2022 (Rs lakh)						
Sl.No.	Loan order No.	Date	Purpose	Original loan amount	Balance of State Govt Loan as on 31.03.2022	Interest for the year 2021-22
1	43(Sanction)-PO/P/C/II/1B-08/2016	04.03.2016	Purulia Pumped Storage Project	336	336	29
2	06 (Sanction)-PO/P/C/II/1B-08/2016	14.06.2016	Purulia Pumped Storage Project	400	400	34
3	39 (Sanction)-PO/P/C-II/1B-08/2016	30.11.2016	Purulia Pumped Storage Project (ID-P-98/152/167)	10721	8106	108
Total					8842	171



*[Signature]*  
23/09/2022  
Manager (F & A)  
Corporate Compilation  
WBSEDCL

*[Signature]*  
Chief Engineer (Regulation)  
Regulation Department  
WBSEDCL