

HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED

(A State Government Undertaking)



Registered Office Vidyut Bhawan, HPSEBL, Shimla-171004 (H.P.)
Number (CIN) U40109HP2009SGC031255
GST HPSEBL 02 AACCH4894EHZB
Telephone No. 0177-2657168
Website address www.hpsebl.in



No: HPSEBL/CE (Comm.)/ EA-PAT (Vol.-6)/2021-22- 13715-16

Dated:- 29/03/2022

To

The Director General,
Bureau of Energy Efficiency
Ministry of Power, Govt. of India
4th Floor, Sewa Bhawan, R. K. Puram,
New Delhi – 110066.

Sub: - Regulation to conduct Energy Audit/Accounting in Electricity Distribution Companies.

Reference:- Your office letter No. 18/1/BEE/DISCOM/2021/4792-893 dated 09-11-2021 & even No. 5401-494 dated 28-01-2022 and this office letter No. HPSEBL/CE (Comm.)/ EA-PAT (Vol.-6)/2021-22-13551 dated 24-03-2022.

Sir,

With reference to above referred letters, the 1st & 2nd periodic Energy Accounting Reports of FY 2021-22 in respect of Himachal Pradesh State Electricity Board Limited are enclosed on prescribed formats as per detail given below:-

1. General Information.
2. Form-Details of Input Infrastructure.
3. Form-Input Energy (Details of Input Energy & Infrastructure.
4. Details of Input Energy.
5. Details of Consumers.
6. Details of Division Wise Losses.
7. Details of Feeder-wise Losses.

This is for your kind information and necessary action please.

DA:As above

Yours faithfully,

(Er. Ram Prakash)

Chief Engineer (Comm.),
HPSEB Ltd, Vidyut Bhawan,
Shimla- 171004.

Copy of the above is forwarded to the Chief Engineer (E), Directorate of Energy, Phase-III, Sec. VI, Govt. of HP Shimla-171009 for your kind information please.

Chief Engineer (Comm.),
HPSEB Ltd, Vidyut Bhawan,
Shimla- 171004.

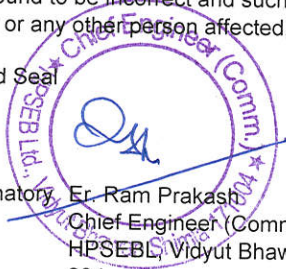
Form for Energy Accounting-to be completed by the Accredited Energy Auditor and Energy Manager of the Electricity Distribution Company—Himachal Pradesh State Electricity Board Limited (A State Government Undertaking), Vidyut Bhawan, Shimla-04

GENERAL INFORMATION			
1	Name of the DISCOM	Himachal Pradesh State Electricity Board Ltd. (HPSEBL)	
2	i) Year of Establishment	1971	
	ii) Government/Public/Private	Government	
3	DISCOM's Contact details & Address	Himachal Pradesh State Electricity Board Ltd. (HPSEBL) (A State Govt. Undertaking), Vidyut Bhawan, Shimla-04	
i	City/Town/Village	Shimla	
ii	District	Shimla	
iii	State	Himachal Pradesh	PIN 171004
iv	Telephone	0177-2656624	Fax 0177-2803315
4	Registered Office		
i	Company's Chief Executive Name	Er. Pankaj Dadwal	
ii	Designation	Managing Director	
iii	Address	Himachal Pradesh State Electricity Board Ltd. (HPSEBL) (A State Govt. Undertaking), Vidyut Bhawan, Shimla-04	
iv	City/Town/Village	Shimla	P.O. Shimla
v	District	Shimla	
vi	State	Himachal Pradesh	PIN 171004
vii	Telephone	0177-2803600	Fax 0177-2803600
5	Nodal Officer Details		
i	Nodal Officer Name (Designated at DISCOM's)	Er. Ram Prakash	
ii	Designation	Chief Engineer (Comm.)	
iii	Address	O/o Chief Engineer (Comm.) HPSEBL, Vidyut Bhawan, Shimla-04	
iv	City/Town/Village	Shimla	P.O. Shimla
v	District	Shimla	
vi	State	Himachal Pradesh	PIN 171004
vii	Telephone	0177-2656624	Fax 0177-2803315
6	Energy Manager Details		
i	Name	Er. Rajesh Chandla	
ii	Designation	Superintending Engineer	Whether EA or EM:- EM
iii	EA/EM Registration No.	EA-16793	
iv	Telephone	94181-56700	Fax 0177-2803315
v	Mobile	E-mail ID	chandla@ymail.com
7	Period of Information		
	Year of (FY) information including	FY-2021-22	II nd Qtr.
	Date and Month (Start & End)	I st July, 2021	30 th September, 2021

Performance Summary of Electricity Distribution Companies			
1	Period of Information Year of (FY) information including Date and Month (Start & End)	FY-2021-22 (2nd Qtr.) Start:-1 st July, 2021 End:- 30 th Sep., 2021	
2	Technical Details		
(a)	Energy Input Details		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	4841.049
(ii)	Net input energy (at HP State Periphery after adjusting the transmission losses and energy traded)	Million kwh	2994.022
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	2567.322
(b)	Transmission and Distribution (T&D) loss Details	Million kwh	426.70
		%	14.25
	Collection Efficiency	%	93.19%
(c)	Aggregate Technical & Commercial Loss	%	20.09%

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal



Signature:-

Name of Authorised Signatory, Er. Ram Prakash
Chief Engineer (Commercial.),
HPSEBL, Vidyut Bhawan, Shimla-171
004.

Name of Energy Manager: Er. Rajesh Chandla
Registration Number: EA-16793

Name of the DISCOM: Himachal Pradesh State Electricity
Board Ltd. (A State Govt. Undertaking),

Full Address:- Vidyut Bhawan, HPSEBL, Shimla-04
Seal


Form-Input Energy (Details of Input Energy & Infrastructure)			
A. Summary of energy input & Infrastructure			
S.No	Parameters	Period From 1 st July, 2021 to 30th September, 2021	Remarks (Source of data)
A.1	Input Energy purchased (MU)	4841.049	
A.2	Transmission loss (%)	1.95	
A.3	Transmission loss (MU)	94.316	
A.4	Energy sold outside the periphery(MU)	1752.711	
A.5	Open access sale(MU)	74.83	
A.6	EHT sale (MU)	557	
A.7	Net input energy(received at DISCOM periphery or at distribution	2994.022	
A.8	Is100% metering available at 66/33kV(Select yes or no from list)	Yes	
A.9	Is100% metering available at 11kV(Select yes or no from list)	Yes	
A.10	% of metering available at DT	93.22%	
A.11	% of metering available at consumer end	100%	
A.12	No of feeders at 66kV voltage level	54	
A.13	No of feeders at 33kV voltage level	298	
	No of feeders at 22kV voltage level	243	
	No of feeders at 15kV voltage level	1	
A.14	No of feeders at 11kV voltage level	1221	
A.15	No of LT feeders level	460	
A.16	Line length(c kt. km) at 66kV voltage level	507.15	
A.17	Line length(c kt. km) at 33kV voltage level	36.239	
A.18	Line length(c kt. km) at 22kV voltage level	35.395	
	Line length(c kt. km) at 15kV voltage level	0	
	Line length(c kt. km) at 11kV voltage level	215.105	
	Line length(c kt. km) at 2.2kV voltage level	2.100	
A.19	Line length(km) at LT level	465.455	
A.20	Length of Aerial Bunched Cables	14.05	
A.21	Length of Underground Cables	0.00	
A.22	HT/LT ratio	0.62	

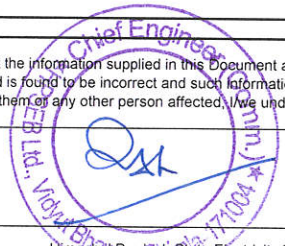
B. Meter reading of Input energy at injection points

S.No	Zone	Circle	Voltage Level (KVA)	Division (KVA)	Sub-Division (KVA)	Feeder ID	Feeder Name	Feeder Metering Status (Metered/ un-metered/ AMI/AMR)	Status of Meter (Functional/Non-functional)	Metering Date	Feeder Type (Agricultural/ Industrial/Mixed)	Status of Communication			Period from 01-07-2021 to 30-09-2021				Sales	Remarks (Source of data)							
										Date of last actual meter reading/ communication		% data received automatically if feeder AMR/AMI	Number of hours when meter was unable to communicate in period	Total Number of hours in the period	Meter S. No	CT/PT ratio	Import (MU)	Export (MU)									
B.1																											
B.2																											
B.3																											
B.4																											
B.5																											
B...																											
B...																											
B...																											
B.1000																											
B.1001																											
B.1002																											
Total (MU)																											
Net input energy at DISCOM periphery (MU)																		4841.049	1752.711	2567.322							2994.022

Color code	Parameter
	Please enter voltage level or leave blank
	Please enter feeder id and name or leave blank
	Enter meter no or leave blank
	Enter CT/PT ratio or leave blank
	Please enter numeric value or 0
	Please select yes or no from list
	Formula protected

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorized Signatory and Seal	
Name of the DISCOM:	Himachal Pradesh State Electricity Board Limited (A State Government Undertaking)
Full Address	Vidyut Bhawan, HPSEBL, Shimla-04.
Seal	



**Details of Input Energy
Sources**

Period From 01.07.2021.To 30.09.2021 (2nd Quarter)

A. Generation at Transmission Periphery (Details)

S.No.	Name of Generation Station	Generation Capacity (In MW)	Type of Station Generation [Based- Solid (Coal,Lignite)/ Liquid/Gas/Renewable {biomass- bagasse}/Others]	Type of Contract (in years/ months/ days)	Type of Grid (Intra-State/ Inter-State)	Point of Connection (POC) Loss in MU	Voltage Level (At Input)	Remarks (Source of Data)
1	Bhaba	120.000	Renewable-Hydro Electric	20.05.1989	Intra-State	11/220kV Switchyard Bhaba	220KV	As per record
2	Ganvi-I	22.500	Renewable-Hydro Electric	16.10.2000	Intra-State	11/66kV Switchyard Ganvi	66KV	As per record
3	Nogli	2.500	Renewable-Hydro Electric	00-12-1963	Intra-State	0.415/22kV Switchyard Nogli	22KV	As per record
4	Chaba	1.750	Renewable-Hydro Electric	1913	Intra-State	2.2/22kV Switchyard Chaba	22KV	As per record
5	Giri	60.000	Renewable-Hydro Electric	16.04.1978	Intra-State	11/132KV Switchyard.Giri	11/132kV	As per record
6	Andhra	16.950	Renewable-Hydro Electric	29.09.1987	Intra-State	11/66 KV Switchyard Andhra	11/66KV	As per record
7	Gumma	3.000	Renewable-Hydro Electric	31.08.2000	Intra-State	6.6/22 KV Switchyard Gumma	6.6/22KV	As per record
8	Bassi	66.000	Renewable-Hydro Electric	13.09.1970	Intra-State	11/132 kV Switchyard Bassi	132 KV	As per record
9	Binwa	6.000	Renewable-Hydro Electric	29.08.1984	Intra-State	6.6/33kV Switchyard Binwa	33 KV	As per record
10	Gaj	10.500	Renewable-Hydro Electric	22.06.1996	Intra-State	6.6/33kV Switchyard Binwa	33 KV	As per record
11	Baner	12.000	Renewable-Hydro Electric	13.05.1996	Intra-State	6.6/33kV Switchyard Banner	33 KV	As per record
12	Khauli	12.000	Renewable-Hydro Electric	03.03.2007	Intra-State	6.6/33kV Switchyard khauli	33 KV	As per record
13	Larji	126.000	Renewable-Hydro Electric	28.09.2006	Intra-State	132kV Switchyard at Larji	132KV	As per record
14	Rukti	1.500	Renewable-Hydro Electric	00.11.1979	Intra-State	0.415/22kV Switchyard Rukti	22KV	As per record
15	Holi	3.000	Renewable-Hydro Electric	30.11.2004	Intra-State	3.3/33kV Switchyard Holi	33KV	As per record
16	B.S. Chamba	0.450	Renewable-Hydro Electric	1938	Intra-State	0.4/11kV Switchyard, Chamba	11KV	As per record
17	Sal-II	2.000	Renewable-Hydro Electric	17.03.2000	Intra-State	11/0.433 Switchyard Sal-II	11KV	As per record
18	Bhaba Aug.	4.500	Renewable-Hydro Electric	10.07.2011	Intra-State	0.330/22kV Switchyard Bhaba(Kafnoo)	22KV	As per record
19	Ganvi-II	10.000	Renewable-Hydro Electric	03.04.2014	Intra-State	6.6/66kV Switchyard Ganvi	22KV	As per record
20	Thirot	4.500	Renewable-Hydro Electric	16.10.1995	Intra-State	11/33kV switchyard at Thirot	33KV	As per record
21	Billing	0.400	Renewable-Hydro Electric	2011	Intra-State	Interconnection at 11kV Darcha Line	11KV	As per record
22	Ligthi	0.400	Renewable-Hydro Electric	2004	Intra-State	22kV Switchyard Lingti	22KV	As per record
23	Rongtong	2.000	Renewable-Hydro Electric	02.12.1986	Intra-State	0.415/22kV Switchyard Rongtong	22KV	As per record

**Details of Input Energy
Sources**

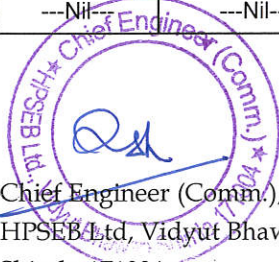
Period From 01.07.2021.To 30.09.2021 (2nd Quarter)

A. Generation at Transmission Periphery (Details)

S.No.	Name of Generation Station	Generation Capacity (In MW)	Type of Station Generation [Based- Solid (Coal,Lignite)/ Liquid/Gas/Renewable {biomass- bagasse}/Others]	Type of Contract (in years/ months/ days)	Type of Grid (Intra-State/ Inter-State)	Point of Connection (POC) Loss in MU	Voltage Level (At Input)	Remarks (Source of Data)
	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---

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(EA-16793)



 Chief Engineer (Comm.),
 HPSEB Ltd, Vidyut Bhawan,
 Shimla-171004.

Period From 01.07.2021.To.30.09.2021 (2nd Quarter)

B. Embedded Generation in DISCOM Area

S.No	Name of Generation Station	Generation Capacity (In MW)	Type of Station (Generation Based-Solid/Liquid/Gas/Renewable/Others)	Type of Contract	Type of Grid	Voltage Level (kV)	Circle Load (MW)	Received at Circle (kV)	Received at Circle (In MU)	Division Level Load (MW)	Received at Division Level (kV)	Received at Division Level (In MU)	Sub-Division Level Load (MW)	Received at Sub-Division Level (kV)	Received at Sub-Division Level (In MU)	Remarks (Source of Data)
	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---	---Nil---

Chandru
 Or. Rajesh chandra
 (EA-16793)


 Chief Engineer (Comm.),
 HPSEB Ltd, Vidyut Bhawan,
 Shimla-171004

**Summary of Consumers and Energy Consumption
During Period From 01.07.2021 To 30.09.2021 (2nd Qtr.)**

Sr. No	Type of Consumers	Category of Consumers (EHT/HT/LT/ Others)	Voltage Level (In Volt)	No. of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1	Domestic	LT & HT	0.23 kV	14267	107.842	
			0.4 kV	153	1.904	
			11 kV	0	0.018	
			Sub-Total	14420	109.763	
2	Commercial	LT	0.23 kV	2680	16.743	
			0.4 kV	122	7.868	
			Sub-Total	2802	24.611	
3	IPSets					
4	Hor. & Nur. & Coffee/Tea&Rubber(Metered)					Category is not defined in Tariff order hence Not applicable to HPSEBL
5	Hor. & Nur. & Coffee/Tea&Rubber (Flat)					
6	Heating and MotivePower					
7	Water Supply	LT	0.23 kV	124	0.381	
8	Public Lighting	LT	0.4 kV	-11	-7.071	
			0.23 kV	3	-0.074	
			Sub-Total	5	-0.068	
9	HT Water Supply	HT	2.2 kV	0	-0.063	
			11 kV	3	-0.898	
			15 kV	0	3.775	
			22 kV	12	-3.240	
			33 kV	0	1.732	
			Sub-Total	15	1.306	
10	HT Industrial	HT	0.4 kV	-4	-6.864	
			2.2 kV	-1	0.000	
			11 kV	21	57.071	
			15 kV	0	0.000	
			22 kV	2	0.047	
			33 kV	0	31.237	
			66 kV	1	12.499	
			Sub-Total	19	98.965	
11	Industrial (Small)	LT	0.23 kV	-89	0.296	
			0.4 kV	41	0.979	
			Sub-Total	-48	1.276	
12	Industrial (Medium)	LT	0.2	-2	-0.003	
			0.4	9	0.094	
			Sub-Total	7	0.091	
13	HT Commercial	HT	11	11	1.268	
			22	2	-1.149	
			33	0	0.006	
			Sub-Total	13	0.125	
14	Applicable to Government Hospitals & Hospitals					Category is not defined in Tariff order hence Not applicable to HPSEBL
15	Lift Irrigation Schemes/Lift Irrigation Societies					
16	HTRes. Apartments Applicable to all areas					
17	Mixed Load					
18	Government offices and department					
19	Non- Domestic NON -Commercial (NDNC)	LT & HT	0.23 kV	72	0.276	
			0.4 kV	8	-0.395	
			11 kV	0	1.008	
			22 kV	0	0.072	
			33 kV	0	0.988	
			Sub-Total	80	1.950	
20	Others-2 (ifany,specifyinremarks)					
21	Bulk Supply (BS)	LT & HT	0.23 kV	776	3.066	
			0.4 kV	247	-0.775	
			11 kV	0	-0.640	
			Sub-Total	1023	1.651	
22	Temporary Metered Supply (TMS)	LT & HT	0.23 kV	0	-0.001	
			0.4 kV	2	-0.718	
			2.2 kV	0	-0.350	
			11 kV	2	-2.851	
			22 kV	0	-1.806	
			33 kV	0	-0.134	
			Sub-Total	4	-5.860	
23	Others-5 (ifany,specifyinremarks)	LT & HT	0.23 kV	870	0.500	
			0.4 kV	32	0.388	
			2.2 kV	0	-0.015	
			11 kV	3	-0.495	
			22 kV	0	-0.005	
			Sub-Total	905	0.414	
Total				19358	227.534	

Sr. No	Voltage Level (In Volt)	No. of Consumers	Total Consumption (In MU)	Remarks (Source of data)
1	0.23 kV	18701	129.027	
2	0.4 kV	601	-4.584	
3	2.2 kV	-1	-0.428	
4	11 kV	40	54.480	
5	15 kV	0	3.775	
6	22 kV	16	6.080	
7	33 kV	0	33.870	
8	66 kV	1	12.499	
9	132 kV	0	1.362	
10	220 kV	0	3.613	
Total		19358	227.534	

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Ev Arjesh chandru EA-10793

