

No IPH-SE P& I E.E.(D) Consultant/08-1952-2022
Himachal Pradesh
I&PH Department
Dated Shimla the

28th August, 2008.

To

All the Chief Engineers,
Under IPH Department.

All the Superintending Engineers,
Under IPH Department.

Subject: - Salient features on the Schedule of Tariff and HPERC Regulations to effect
over all energy economy.

Kindly refer to this office letter no. IPH-SE-P&I-II-Consultant (Elect.)/2005-225-296 dated 20.4.2006 and subsequent letter of even file no. 4573-4674 dated 20.9.2006 vide which certain instructions in order to effect the possible savings in the energy bills have been conveyed. The Consultant (Elect.) to I&PH Deptt. has intimated that during interaction with the field officers, it has been noticed that the field units are unaware of the revised tariff for the financial year 2008-09 as well as various provisions in HPERC regulations related to SOP estimates, utilization certificates and security deposit etc.

A comprehensive and detailed paper has been prepared by the Consultant (Elect.) which contains salient features on the Schedule of Tariff, Power Factor improvement (with examples), important provisions in the HPERC(Recovery of Expenditure for supply of electricity and initial security deposit) Regulations 2005 and some important tips which will facilitate in checking the energy bills and SOP estimates etc. at field level in order to effect the over all energy economy, besides solving day to day problem with the HPSEB. A copy of the same is enclosed here with. The softcopy of the paper is also available on the website of the I&PH Deptt. for reference and guidance.

It is requested that the concerned Executive Engineers may be directed to make available the copy of the paper to all the AE's/JE's under their jurisdiction for reference and guidance.

Please acknowledge the receipt

-sd-

Engineer-in-Chief,
I&PH Deptt., H.P Govt.
Shimla-1.

Copy forwarded to:-

1. The Principal Secretary (IPH) to the Government of Himachal Pradesh for information please.
2. All the Executive Engineers, under I&PH Deptt. along with the copy of above cited paper for information and necessary action.
3. The Consultant (Electrical), to I&PH Deptt., Jal Bhawan, Shimla-9 w.r.t. his U.O. Note no. 592 dated 31.7.2008 for information.

-sd-

Engineer-in-

Chief,

I&PH Deptt., H.P Govt.
Shimla-1.

**Himachal Pradesh Government
Irrigation & Public Health Department**

Schedule of Tariff (Salient Features)

and

Himachal Pradesh Electricity Regulatory Commission

(Recovery of Expenditure for Supply of Electricity)

&

(Initial Security Deposit)

Regulations-2005

PREFACE

The paper contains the salient features on the Schedule of tariff, Power Factor improvement (With Examples), important provisions in the Himachal Pradesh Electricity Regulatory Commission (Recovery of Expenditure for Supply of Electricity & Initial Security Deposit) Regulations, 2005 and some important tips.

It is hoped that the Engineers of I&PH Department up to Junior Engineer level would find it of keen interest and quite useful in checking the Energy bills and SOP Estimates, besides solving day to day problem with the HPSEB.

Consultant (Electrical)

Engineer-in-Chief

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SCHEDULE OF TARIFF
(Applicable w.e.f. 1st April, 2008)
SALIENT FEATURES

(I) DEFINITIONS

1. **Act:** The Act shall mean The Electricity Act, 2003 as amended from time to time.
2. **Average Power Factor:** shall mean the average energy factor and shall be taken as the ratio of the “kilo-watt-hours” (kWh) to the “kilo-volt-ampere hours” (kVAh) supplied during any period.
3. **Board:** means the Himachal Pradesh State Electricity Board.
4. **Commission:** shall mean the Himachal Pradesh Electricity Regulatory Commission.
5. **Connected Load:** shall mean the sum of all the rated capacities of all the energy consuming devices/apparatus at the consumer’s installation..
6. **Consumer Service Charges:** shall mean the fixed amount to be paid by the consumer as defined in the respective tariff schedule.
7. **Contract Demand:** shall mean the demand expressed in KVA units for which the consumer has entered into an agreement with the Board.
8. **Demand Charges:** shall mean the amount chargeable based upon the billing demand in kVA as defined in the relevant tariff schedule.
9. **Energy Charges:** shall mean the charges for energy actually taken by the consumer and is applicable to the units consumed in the relevant billing period. This is in addition to demand charges, wherever applicable.
10. **Maximum Demand:** for any month shall mean the highest average load measured in kilovolt amperes during any consecutive 30 minutes period of the month.
11. **Rules:** shall mean Indian Electricity Rules, 1956 as amended from time to time until Regulations under Section 53 of the Act are made by CEA.
12. **Sanctioned Load:** shall mean the load for which the Board has agreed to supply from time to time subject to the governing terms and conditions. The total connected load is required to be sanctioned from the competent authority.
13. **Schedule:** shall mean this Tariff Schedule.
14. **Supplier:** shall mean the Himachal Pradesh State Electricity Board.
15. For the purpose of this tariff order, the voltage wise categorization shall be as follows:
 - a) **EHT** represents consumers connected on supply voltage 66KV and above
 - b) **HT** represents consumers connected on supply voltage 11KV and above but less than 66 KV.
 - c) **LT** represents consumers connected on supply voltage less than 11KV

(II) SCHEDULE - WATER PUMPING SUPPLY (WPS)**1. Applicability**

This schedule is applicable to Government connections for water and irrigation pumping. The schedule also covers all consumption for bonafide Pump House lighting.

2. Character of service

| Connected Load (KW) | Standard Supply Voltage (AC 50 Hz) |
|------------------------|---------------------------------------|
| <= 50 KW | (1Ø 0.23 KV or 3Ø 0.415 KV) OR 2.2 KV |
| 51 KW up to 2000 KW | 11 KV or 15 KV or 22 KV |
| 2001 KW up to 10000 KW | 33 or 66 KV |
| >10000 KW | >= 132 KV |

3. Two Part Tariff**a) Consumer Service Charge (Charges-1)**

| Consumer Service Charge (Rs/month) | |
|------------------------------------|-----|
| LT | 120 |
| HT | 120 |
| EHT | 120 |

b) Energy Charge (Charges-2)

| Description | Energy Charge (Rs./kVAh) |
|-------------|--------------------------|
| LT | 3.40 |
| HT | 2.70 |
| EHT | 2.50 |

c) Demand Charge (Charges-3)

| Maximum Demand Charge (Rs/kVA/month) | |
|--------------------------------------|-----|
| LT | 200 |
| HT | 150 |
| EHT | 120 |

Note: Demand charges would be levied on the actual maximum recorded demand in a month in any 30minute interval in a month or 90% of the contract demand, whichever is higher.

4. Peak load exemption charges (PLEC) and peak load violation charges (PLVC)**a) Peak Load Exemption Charge (Charge-1)**

| PLEC | Addl. Demand Charges on exempted load (Rs./kVA/month) | Energy Charges (Rs./kVAh) |
|-------------|--|----------------------------------|
| LT | 50 | 6.80 |
| HT | 50 | 5.40 |
| EHT | 50 | 5.00 |

b) Peak Load Violation Charge (Charge-2)

| Description | Demand Charge | Energy Charge |
|--------------------|-----------------------------|------------------------|
| | PLVC (Rs./kVA/month) | PLVC (Rs./kVAh) |
| LT | 300 | 10.20 |
| HT | 300 | 8.10 |
| EHT | 300 | 7.50 |

Note:

- i) The Peak Load Violation Charges shall be applicable to the demand as well as the consumption recorded during the peak load hours only.
- ii) Demand charge for peak load violation shall be calculated on the basis of the maximum demand during peak hours, in excess of the exempted load.
- iii) Consumers who have the peak load exemption but are found exceeding the exempted load shall be deemed to have used energy, calculated prorata on the basis of the load in excess of the exempted load, for the days of violation only.

5. Higher Voltage Supply Rebate (HVSr): Applicable as specified under 'Part-1 General.

6. Lower Voltage Supply Surcharge (LVSS): Applicable as specified under 'Part-1 General.

7. Lower Voltage Metering Surcharge (LVMS): Applicable as specified under 'Part-1 General.

8. Late Payment Surcharge (LPS): Applicable as specified under 'Part-1 General.

9. Contract Demand Violation Charge: Applicable as specified under 'Part-1 General.

10. Night Time Concession (NTC): Applicable @ 20 p/kVAh as specified under 'Part-1 General.

11. Power Factor Surcharge (PFS): Applicable as specified under 'Part-1 General.

12. Disturbing Load Penalty (DLP): Applicable as specified under 'Part-1 General.

PART – 1 GENERAL

- (a) **Standard Supply Voltage** - The standard of supply voltage, as existing on the relevant network system, in KV, to be followed by HPSEB, based on the connected load measured in KW, as specified under each consumer category of this ‘Schedule of Tariff’, in respect of supply of electricity to prospective consumers OR at the time of change of supply voltage on request of existing consumer OR at the time of application of ‘Lower Voltage Supply Surcharges’ and ‘Higher Voltage Rebates’ respectively to its existing consumer categories in their bills.
- (b) **Single Point Supply** - the various tariffs referred to in this Schedule are based on the supply being given at a single voltage and through a single delivery and metering point. Supply given at other voltages and through other points, if any, shall be separately metered and billed.
- (c) **Lower Voltage Supply Surcharge (LVSS)** – Consumers availing electricity supply at a voltage lower than the ‘Standard Supply Voltage’ as specified under the relevant category, shall be charged a ‘Lower Voltage Supply Surcharge’ at the following rates on only the amount of energy charges, billed, for each level of specified step down (as given in table below) from the ‘Standard Supply Voltage’ to the level of Actually Availed Supply Voltage.

| Standard Supply Voltage | Actually Availed Supply Voltage | LVSS |
|-------------------------|------------------------------------|------|
| 11KV or 15KV or 22 KV | 1Ø 0.23 KV or 3Ø 0.415KV OR 2.2 KV | 5% |
| 33 KV or 66 KV | 11 KV or 15KV or 22 KV | 3% |
| >= 132 KV | 33 KV or 66 KV | 2% |

- (d). **Higher Voltage Supply Rebate (HVSR)** – A consumer availing electricity supply at a voltage higher than the ‘Standard Supply Voltage’ as specified under the relevant category, shall be given a ‘Higher Voltage Supply Rebate’ at the following rates on only the amount of energy charges, billed, for each level of specified step up from the ‘Standard Supply Voltage’ to the level of Actually Availed Supply Voltage.

| Standard Supply Voltage | Actually Availed Supply Voltage | HVSR |
|-------------------------------------|---------------------------------|------|
| 1Ø 0.23 KV or 3Ø 0.415 KV OR 2.2 KV | 11KV or 15KV or 22 KV | 5% |
| 11KV or 15KV or 22 KV | 33 KV or 66 KV | 3% |
| 33 KV or 66 KV | >= 132 KV | 2% |

- (e). **Lower Voltage Metering Surcharge (LVMS)** - In respect of consumers, for whom the metering for maximum demand or energy consumption or both, is done on the lower voltage side of the transformer, instead of higher voltage side at which the supply has been taken by the consumer, on account of non-availability of the higher voltage metering equipment or its unhealthy operation, the consumer shall be charged “Lower Voltage Metering Surcharge” at the rate of 2% on the amount of only the energy charges billed.
- (f). **Late Payment Surcharge (LPS)** - Surcharge for late payment shall be levied at the rate of 1% per month or part thereof, on the outstanding amount excluding electricity duty/taxes of for all consumer categories.
- (g). **Peak Load Exemption Charge (PLEC)** - Electricity Supply shall, normally, not be available to the consumers covered under the categories, ‘Agricultural and Allied Activities Supply’ (AAAS), ‘Small and Medium Industrial Power Supply’ (SMS), ‘Power Intensive Units’ (PIU), ‘Large Industrial Power Supply (LS) and ‘Water Pumping Supply’ (WPS), of this schedule of tariff during the peak load hours of the day. The duration of peak load hours in summers and winters shall be for a period of three hours in the evening. The duration of peak hours shall be as follows
- | | | | |
|----|---------------|----------------------------|----------------------------|
| a) | <i>Summer</i> | <i>(April to October)</i> | <i>7.00 PM to 10.00 PM</i> |
| b) | <i>Winter</i> | <i>(November to March)</i> | <i>6.30 PM to 9.30 PM</i> |

However, where the above categories of consumers want to avail of exemption to run their unit during the peak load hours for any special reason, a separate sanction for the exemption (in KW or computed in KVA assuming 0.9 power factor), for running the unit (full load or part thereof), from the Board shall be required. This sanction (for full load or part thereof) shall be issued at the request of the consumer and shall be subject to availability of power in the area during the above specified peak hours.

Consumers requesting for peak load exemption (PLE) must be provided with suitable tri-vector meters which are capable of recording the maximum demand for every 30 minute block in twenty four (24) hours of the day for a whole month, apart from recording the energy consumption. However, any consumer possessing sanction for peak load exemption (for full load or part thereof) and without an installed tri-vector meter or a suitable meter, would also need to get the meter installed within three months of issue of this notification.

Where sanction for running of unit (for full load or part thereof) during peak load hours is already issued, no further sanction shall be required to the extent of the load for which the exemption has already been obtained. All consumers who have been given exemption to run their units (for full load or part thereof) during the peak load hours shall be charged a ‘Peak Load Exemption Charge’, as separate demand charge and energy charges in kVA per month and energy charges (in Rs./ kVAh/ month and Rs./kWh/month as per two part or single part tariff applicable respectively) for the energy consumption during peak load hours in a month, at the rate specified in the relevant category of this schedule of tariff.

- (h). Peak Load Violation Charge (PLVC)** – Consumers who do not have the peak load exemption but are found using the electricity during peak hours will have to pay PLVC on the total consumption during the peak hours or consumers who have the exemption but are found exceeding the exempted load during peak load hours will have to pay ‘Peak Load Violation Charge’ on the quantum of load in excess of the exempted load as specified under the relevant schedule of tariff. Consumers who have the peak load exemption but are found exceeding the exempted load shall be deemed to have used energy, calculated prorata on the basis of the load in excess of the exempted load, for the days of violation only. Violation in excess of five times in a year shall result in disconnection of the defaulting consumer without prejudice to recover such charges. No Higher Voltage Supply Rebate (HVSRR) shall be applicable/achievable in respect of the peak hours of the day.

In case the Consumers covered under single part tariff, without an installed meter capable of recording energy during different times of the day, are found violating the peak load hour restriction, one half of the consumption for the month shall be billed at the specified PLVC rate which shall be three times the normal energy charges (Rs./Kwh).

- (i). Demand Charge (DC)** – Consumers billed on the basis of KVAh tariff as applicable for the relevant category under this Schedule of Tariff, shall in addition to the KVAh charges per month, be also charged at the rate specified, the ‘Demand Charges’ per month per KVA, calculated *on [the actual Maximum Demand (in KVA) recorded on the energy meter during any consecutive 30 minute block period of the month] OR [90 % of the Contract Demand (in KVA) or {in the absence of Contract Demand 80% of the Connected Load (computed in KVA assuming 0.9 power factor)}]* whichever is higher.
- (j). Contract Demand Violation Charge (CDVC)** – In the event of the Maximum Demand (in KVA) is recorded on the energy meter during any consecutive 30 minute block period of the month, exceeds the Contract Demand (in KVA) OR in the absence of the Contract Demand 80% of the Connected Load (computed in KVA assuming 0.9 power factor), the consumer shall be charged ‘Contract Demand Violation Charges’ at the rate of Rs. 300/- per month per KVA to the extent the violation has occurred in excess of the Contract Demand OR in the absence of the Contract Demand 80% of the Connected Load (computed in KVA assuming 0.9 power factor).
- (k). Disturbing Load Penalty (DLP)** - In case where there is unauthorized use of mobile welding sets, the consumer will pay by way of penalty, Rs.20 per kVA of the load rating of welding, set per day, in addition to the energy charges.
- NOTE: authorization shall mean authorization (temporary or permanent) to a consumer by the designated office of the licensee/HPSEB in whose area the supply to the consumer exists and shall not be assumed as authorization of any form from local or other bodies.*
- (l). Night Time Concession (NTC)** – Night Time Concession on consumption of energy from 24:00 hours to 06:00 hours, and shall be applicable to consumers with connected load greater than 20 KW, at the rate specified in the relevant consumer category under this Schedule of Tariff. However such consumers must be provided with suitable tri-vector meters capable of recording energy during different times of the day.

(m). Seasonal industries - In this schedule, unless the context otherwise provides, seasonal industries mean the industries which by virtue of their nature of production, work only during a part of the year, continuously or intermittently up to a maximum period of 7.5 months in a year, such as atta chakkies, saw mills, tea factories, cane crushers, irrigation water pumping, rice husking/hullers, ice factories, ice candy plants and such other factories as may be approved and declared as seasonal by the Board from time to time. Seasonal industries shall be governed under the following conditions: -

- i) The consumer shall intimate in writing to the concerned Sub-Divisional Officer of the Board, one month in advance, the months or the period of off-season during which he will close down his plant(s).
- ii) The minimum working period for a seasonal industry in a year shall be taken as 4 (four) months.
- iii) During the off-season, the entire energy consumption and the power utilised for maintenance and overhauling of the plant and the factory lighting will be charged at "commercial supply" tariff.
- iv) The consumer service charge, demand charge or any other fixed charge shall be levied for the seasonal period only.

(n). Power Factor Surcharge (PFS)-

- i) If at any point of time the power factor of consumers specified under the relevant category of schedule of charges having connected load upto and including 20 KW is checked by any means and found to be below 0.90 lagging, a surcharge @ 10% on the amount of energy charges irrespective of voltage of supply shall be charged from the consumer from the month of checking and will continue to be levied till such time the consumer has improved his power factor to at least 0.90 lagging by suitable means under intimation to the concerned Sub Divisional Officer who shall immediately get it checked.
- ii) Should the monthly power factor fall below 0.85, it must be brought up to minimum of 0.90 by the consumer through suitable means within a period of 3 months, failing which, the connection shall be disconnected.
- iii) The monthly average power factor will be calculated on readings of Tri-Vector Meter/Bi-Vector Meter/Two Part Tariff Meters as per formula given below and shall be rounded up to two decimal places.

$$\text{POWER FACTOR} = \text{KWH} / \text{KVAH}$$

In case of defective tri-vector meter/bi-vector meter/two part tariff meter, power factor will be assessed on the basis of average power factor recorded during last three consecutive months when the meter was in order. In case no such readings are available then the monthly average power factor of three months obtained after installation of correct tri-vector meter/bi-vector meter/two part tariff meter shall be taken for the purpose of power factor surcharge during the period the tri-vector meter/bi-vector meter/ two part tariff meter remained defective.

- iv) The said power factor surcharge shall be independent of the supply voltage.
- v) The consumer service charge, demand charge or any other fixed charge shall not be taken into account for working out the amount of power factor surcharge, which shall be levied on the amount of KWh energy charges only.
- vi) No new supply to L.T. installations with induction motor(s) of capacity above 3 H.P and/or welding transformers above 2.0 KVA shall be given unless shunt capacitors of appropriate ratings are installed to the entire satisfaction of the Board.

(o). Replacement of Defective/Missing/damaged Shunt Capacitors -

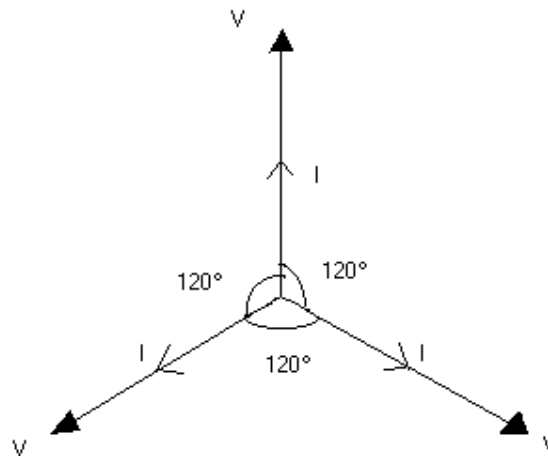
- i) It will be obligatory on the part of the consumer to maintain capacitors in healthy conditions and in the event of its becoming burnt/damaged he shall have to inform the Sub Divisional Officer concerned immediately in writing and also to get the defect rectified within a maximum period of one month from the date the capacitor has gone defective.
- ii) In case shunt capacitor(s) is/are found to be missing or inoperative or damaged, one month notice shall be issued to the consumer for rectification of the defect and setting right the same. In case the defective capacitor(s) is/are not replaced / rectified within one month of the issue of the notice, a surcharge @ 10% per month on bill amount shall be levied w.e.f the date of inspection to the date of replacement of defective/damaged missing capacitors.

In case any dispute regarding interpretation of this tariff order and/or applicability of this tariff arises, the decision of the Commission will be final and binding.

POWER FACTOR IMPROVEMENT

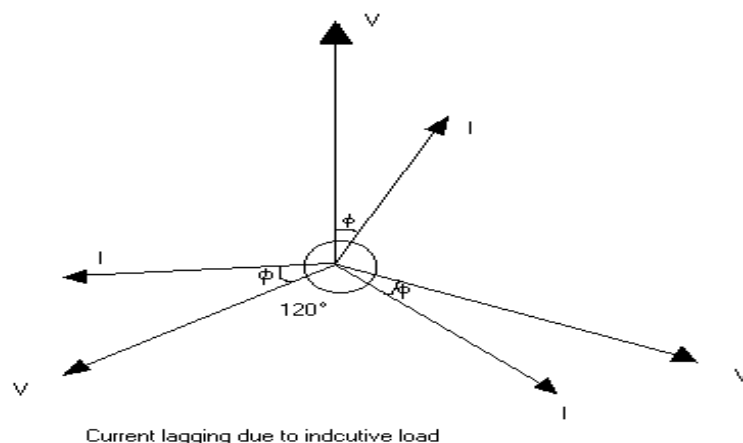
INTRODUCTION: -The electrical energy is almost exclusively generated, transmitted and distributed in the form of alternating current. Therefore, the question of power factor immediately comes into picture. Most of the loads (e.g. induction motors, arc lamps) are inductive in nature and hence have low lagging power factor. The low power factor is highly undesirable as it causes an increase in current, resulting in additional losses of active power in all the elements of power system from power station generator down to the utilization devices. In order to ensure most favorable conditions for a supply system from engineering and economical stand point, it is important to have power factor as close to unity as possible.

Ideal Condition



Power factor = 1

Actual Condition

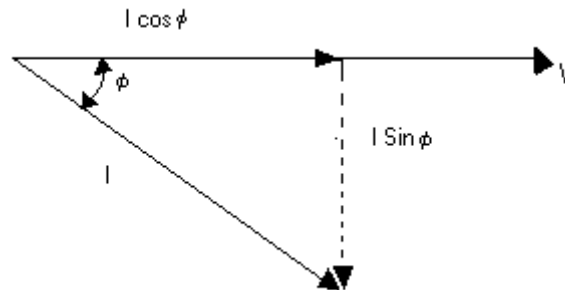


Current lagging due to inductive load

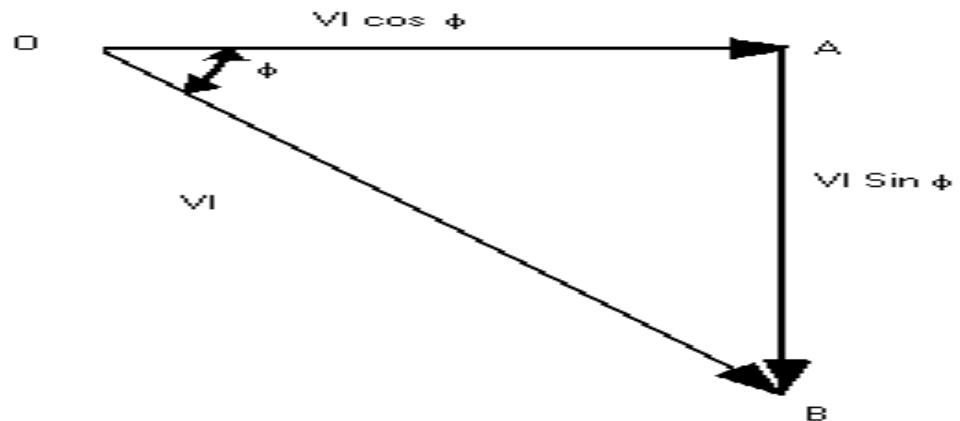
Power factor = $\cos \phi$

Power Factor

The cosine of angle between voltage and current in an a.c. circuit is known as power factor.



Power Triangle



OA = VI cos ϕ and represents the active power in watts or kW

AB = VI sin ϕ and represents the reactive power in VAR or kVAR

OB = VI and represents the apparent power in VA or kVA

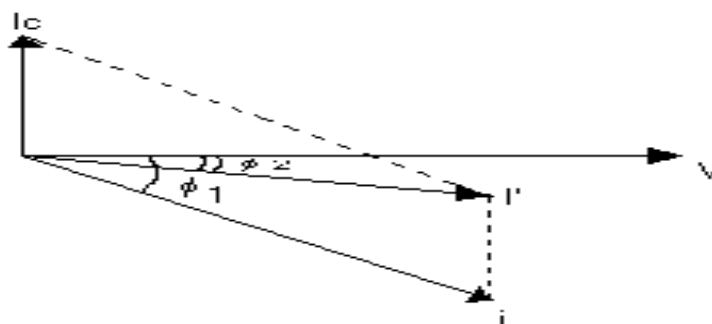
Power factor, $\cos \phi = \text{active power} / \text{apparent power} = VI \cos \phi / VI = \text{KW} / \text{KVA}$

Disadvantages of Low Power Factor

1. Large kVA rating of equipment.
2. Greater conductor size.
3. Large copper losses.
4. Poor voltage regulation.
5. Reduced handling capacity of system.

The above-mentioned disadvantages lead to the conclusion that low power factor is an objectionable feature in the supply system.

Power Factor Improvement



The low power factor is mainly due to the fact that most of the power loads are inductive and, therefore, take lagging currents. In order to improve the power factor, some device taking leading power should be connected in parallel with the load. One of such devices is a capacitor. The capacitor draws a leading current, which leads the supply voltage by 90° and partly or completely neutralizes the lagging reactive component of load current. This raises the power factor of the load.

In the above diagram, the capacitor draws current I_c which leads the supply voltage by 90° . The resulting line current I' is the phasor sum of I and I_c and its angle of lag is ϕ_2 as shown in the phasor diagram. It is clear that ϕ_2 is less than ϕ_1 , and as such $\cos\phi_2$ is greater than $\cos\phi_1$.

The average P.F. of some of the common appliances are given below

| Sr. No. | Type of Load | Power Factor |
|---------|--------------------|--------------|
| 1. | Incandescent lamps | 0.98-1.00 |
| 2. | Induction heaters | 0.85 |
| 3. | Fluorescent lamp | 0.6-0.8 |
| 4. | Resistance Furnace | 0.6-0.9 |
| 5. | Neon lamps | 0.4-0.5 |
| 6. | Arc furnace | 0.85 |
| 7. | Arc lamps | 0.3-0.7 |
| 8. | Induction furnace | 0.6 |
| 9. | Fans | 0.5-0.8 |
| 10. | Arc Welders | 0.3-0.4 |
| 11. | Induction motors | 0.5-0.85 |
| 12. | Resistance Welders | 0.4-0.75 |

Example

The following example will illustrate the saving in the form of energy charges, maximum demand charges and non levy of power factor surcharge, if the power factor is brought as close to unity as possible.

Assuming that there are three numbers of motors of 100 hp each installed in pumping station, out of which one motor is stand by.

$$\begin{aligned}
 \text{The total Connected Load} &= 3 \times 100 \text{ hp.} \\
 \text{(Except light load of the pumping station.)} &= 300 \times 0.746 \\
 &= 223.8 \text{ KW} \\
 \text{Contract Demand} &= 2 \times 100 \text{ hp} \times 0.746/\text{P.f} \\
 \text{(By assuming 0.9 P.F as per Schedule of Tariff)} &= 149.2/0.9 = 165.78 \text{ KVA}
 \end{aligned}$$

Suppose the Pumping Station runs for 10 hours daily at rated output. The monthly billing towards energy charges, maximum demand charges & power factor surcharge as well as the saving made are as given in Example No. 1,2 & 3 below at 0.5, 0.9 & unity power factor respectively.

Example No. 1

$$\begin{aligned}
 \text{Connected load} &= 300 \times 0.746 = \mathbf{223.8 \text{ KW}} \\
 \text{Power Factor} &= 0.5 \text{ (Assume)} \\
 \text{Contract Demand} &= 200 \times 0.746/0.9 = \mathbf{165.78 \text{ kVA}} \\
 \text{Recorded max. demand} &= 200 \times 0.746/0.5 = \mathbf{298.4 \text{ kVA}} \\
 \text{Energy Consumption (in kVAh)} &= 149.2 \times 10 \times 30 \text{ kWh} = 44760 \text{ kWh} \\
 &= 44760 \text{ kWh/P.F} \\
 &= 44760/0.5 = \mathbf{89520 \text{ kVAh}} \\
 \text{Energy Charges} &= 89520 \times 3.40 = 3,04,368 \\
 \text{Demand Charges} &= 298.4 \times 200 = 59680 \\
 \text{CDVC} &= 132.62 \times 300 = \mathbf{39786} \\
 \text{Power Factor Surcharge} &= 10\% \text{ of Energy charges} \\
 &= \mathbf{30,437} \\
 \text{Total} &= 304368 + 59680 + 39786 + 30437 \\
 &= \mathbf{434271}
 \end{aligned}$$

Example No. 2

| | |
|-------------------------------|--|
| Connected load | = 223.8 KW |
| Power Factor | = 0.9 |
| Contract Demand | = $200 \times 0.746/0.9$ = 165.78 kVA |
| Recorded Max. Demand | = 165.78 kVA |
| Energy Consumption | = $200 \times 0.746 \times 10 \times 30$ = 44760 KWh = $44760/0.9$ = 49733 KVAh |
| Energy Charges | = 49733×3.40 = 169092 |
| Demand Charges | = 165.78×200 = 33156 |
| CDVC | = Nil |
| P.F.Surcharge | = Nil |
| Total | = $169092+33156$ = 202248 |
| Saving in monthly energy bill | = $434271 - 202248$ =232023 |

Example No. 3

| | |
|-------------------------------|---|
| Connected Load | = 223.8 KW |
| Power Factor | = 1.0 |
| Contract Demand | = $200 \times 0.746/0.9$ = 165.78 kVA |
| Recorded Max. Demand | = $200 \times 0.746/1.0$ = 149.2 KVA |
| Energy Consumption | = $200 \times 0.746 \times 10 \times 30$ = 44760 kWh = $44760/1.0$ = 44760 KVA |
| Energy Charges | = 44760×3.40 = 152184 |
| Maximum Demand Charges | = 165.78×200 = 33156 |
| CDVC | =Nil |
| P.F.Surcharge | =Nil |
| Total | = $152184+33156$ = 185340 |
| Saving in monthly energy bill | = $434271 - 182024$ = 252247 |

SUPPLY OF POWER (SOP) ESTIMATE

Important provisions made in the Himachal Pradesh Electricity Regulatory Commission

These Regulations may be called the Himachal Pradesh Electricity Regulatory

Commission (Security Deposit) Regulations,2005

Applicable w.e.f. 30th March, 2005

Regulation 4. Security deposit for the supply of electricity: - (1) The consumer shall, at all times maintain with the licensee an amount equivalent to consumption charges for the billing cycle period, as security during the period the agreement for supply of energy to such consumer remains in force:

Provided that where billing cycle is changed the security deposit shall be reduced/increased on pro-rata basis.

(2) If any person is prepared to take the supply through a pre-payment meter, the distribution licensee shall not be entitled to collect the security deposit in respect of the electricity supplied to such person:

Provided that in the case of existing consumer who opts for the supply through the pre-payment meter, the licensee shall refund the amount of the security deposit of such consumer lying with the licensee.

(3) The initial security deposit payable at the time of releasing the supply shall be at flat rates mentioned in regulation 5.

(4) The amount payable towards security shall be in the form of cash/demand draft (DD) drawn in favour of the licensee;

Provided that where the amount payable towards security exceeds rupees 5.00 lacs, the consumer may opt to furnish the security in the form of Bank Guarantee.

Regulation 5:- Initial Security Deposit. (I) The applicant shall pay initial security deposit towards the electricity to be supplied to him at the flat rates as given in the following table

Table

| Sr. No. | Type of category | Initial security deposit per kW/kVA or fraction thereof of connected load/contract demand (amount in rupees) | | | |
|---------|---|--|------------------|------------------|-----------------|
| | | 4 months billing | 3 months billing | 2 months billing | monthly billing |
| 1 | Tribal areas, remote, difficult and hard areas - all categories except temporary metered supply and street light supply upto 20 kW. | 330 | | | |
| 2 | Tribal areas, remote, difficult and hard areas-all categories above 20 kW except industry, bulk supply, temporary metered supply and street light supply. | | | 240 | |
| 3 | Rural areas all categories upto 20 kW, except industries, temporary metered supply and street light supply. | | 360 | | |
| 4 | Rural areas all categories above 20 kW, except industries and bulk supply, temporary metered supply and street light supply. | | | | 120 |
| 5 | Urban areas up to 20 kW except industries, bulk supply, temporary metered supply and street supply | | | | |
| | (a) DS (b) CS/NDNCS/WPS | | | 340 700 | |
| 6 | Urban areas above 20 kW except industries, bulk supply, temporary metered supply and street supply | | | | |
| | (a) DS (b) CS/NDNCS/WPS | | | | 170 350 |

Explanation.-For the purpose of this regulation,-

(a) “remote, difficult and hard areas” means the areas which are declared as remote, difficult and hard areas by the State Government from time to time.

(b) “rural areas” means the areas which are not the urban areas.

(c) “tribal areas” means such areas as may by order be declared to be Scheduled Areas under Part-C of the Fifth Schedule to the Constitution of India.

(d) “urban areas” means the areas which are declared as the larger urban areas, the smaller urban areas or the transitional urban areas under the Act concerning the municipalities.

(2) In the case of consumers who have sanctioned additional demand, the additional security deposit shall be calculated only for the additional demand.

(3) If the applicant does not make payment of initial security deposit in terms of this regulation, the licensee can refuse to release supply.

Regulation 7- Interest on security deposit payable by the licensee.- (1) Subject to the provisions of sub-section (2) of section 47 of the Act, the licensee shall, with effect from the month succeeding the date on which the security amount is deposited, pay simple interest on security deposit of a the consumer at the Bank Rate (as on 1st April of every year) as notified by the Reserve Bank of India or such higher rate as may be fixed by the Commission from time to time and the amount of interest payable shall be rounded off to the nearest rupee.

(2) Where either the security deposit is less than rupees 100 or a connection is disconnected within one year after giving the supply, no interest shall be payable thereon.

(3) The interest accruing to the credit of the consumer shall be adjusted annually against the amounts outstanding from the consumer to the licensee as on 30th June of every financial year and the amounts becoming due from the consumer to the licensee immediately thereafter.

(4) The licensee shall duly show the amounts becoming due to the consumer towards interest on the security deposit in the bills raised on the consumer and due after 30th June.

(5) The distribution licensee shall maintain for accrual of interest on security deposit of the consumers a separate head of account.

(6) The licensee shall pay penal interest on the interest payable at twice the rate specified under sub-regulation (1) for the delay in making the adjustments for interest on security deposit beyond a period of 30 days after the date as specified in sub-regulation (3). This penal interest shall not be a pass through to the consumers in the licensee's Annual Revenue Requirement.

Regulation-8. Refund of security deposit.- (1) Where an agreement for supply of electricity is terminated as per the terms and conditions of supply, the licensee shall be required to refund the security deposit if any, after making adjustments for the amounts outstanding from the consumer to the licensee, within one month of the effective date of termination of the agreement:

Provided that if such refund is delayed beyond the period of one month as specified above, the licensee shall pay simple interest on such deposit @ 12 % per annum from the effective date of termination of the agreement without prejudice to other rights of and remedies available to the consumer.

(2) Where contract demand/connected load is reduced by the consumer or the billing cycle is reduced, the licensee shall reduce the amount of security on pro-rata basis and refund excess amount, after making adjustments for the amounts outstanding from the consumer to the licensee, within one month of the effective date of reduction of contract demand/connected load;

Provided that if such refund is delayed beyond the period of one month as specified above, the licensee shall pay simple interest on such deposit @ 12 % per annum from the effective date of reduction of contract demand/connected load, without prejudice to other rights of and remedies available to the consumer.

(Recovery of Expenditure for supply of Electricity) Regulations, 2005
Applicable w.e.f. 4th April, 2005)

Regulation 3. Specific provision for low tension supply.- (1) The following provisions shall apply for low tension supply

(a) in the case of application for low tension supply where such supply requires only laying the service line from the existing distributing mains to the consumer's premises, the distribution licensee shall estimate and recover the cost of service line and the cost of terminal and metering arrangements at the premises of the consumer. The cost of meter shall not be included;

(b) in the case of application where there is a need to erect new electrical plant such as distribution transformer (DTR) along with the switch gear etc., for extending supply to the applicant of low tension connection, the licensee shall estimate and recover the cost of electrical plant as follows,-

| | |
|---|-----------|
| Cost of the works of erection of distribution transformer (DTR) including the cost of switch-gear and transformer (in rupees) | =P |
| Rated capacity of DTR (kVA) | =Q |
| Cost per kVA (in rupees) | =P/Q |
| Contract Demand of the applicant (kVA) | =K |
| Amount payable by the applicant towards electrical plant (in rupees) | =K*(P/Q): |

Provided that the distribution licensee shall estimate the cost of electrical plant and works based upon the approved latest cost data as published by the distribution licensee:

Provided further that the standard minimum size of the distribution transformer (DTR) viz. single phase 6.3 kVA, 10 kVA, 16 kVA individually or in banking mode or three phase 25 kVA shall be proposed to meet with the contract demand of the applicant:

Provided further that in case there are subsequent applications for supply or additional supply and the existing electrical plant has –

adequate spare capacity to meet with the additional demand, or

(ii) spare capacity but not sufficient to meet with the additional demand, and there is need to strengthen/augment the existing electrical plant for meeting the additional supply,

the licensee shall estimate and/or recover the cost in the like manner, including the actual cost already incurred, with compound interest at the rate of 8% per annum on prorata basis and the credit of the depreciated cost of old/existing electric plant rendered surplus on account of augmentation shall be afforded in the estimate;

(c) in the case of applications where there is need to erect , strengthen, augment or extend the 11 kV, 22 kV or LT line in order to establish a distribution transformer and extend supply to the applicant, the distribution licensee shall estimate and recover the cost of such section of 11 kV, 22 kV or LT line per kilometer basis based upon the approved latest cost data as published by the distribution licensee.

Regulation 4. Specific provision for high tension supply.- (1) The following provisions shall apply for the high tension supply.

(a) in the case of the application for new connection, where such supply requires only extension of high tension line from the existing network to the consumer's premises, the distribution licensee shall estimate and recover the cost of works, service line and the cost of terminal and metering arrangements at the premises of the consumer, but not including the cost of meter and current transformers and/or potential transformer used for metering. The distribution licensee shall estimate and recover the cost of service line on per kilometer basis and the cost of metering arrangements based on the latest approved cost data as published by the distribution licensee;

(b) in the case of application where there is a need to erect a new power transformer or augment the capacity of existing power transformer with or without bay extension at a 33/11 kV sub-station for extending supply to the applicant, the distribution licensee shall estimate and recover the cost of the works involved in the *manner* mentioned in clause (b) of sub-regulation (1) of regulation 3;

(c) in the case of applications where there is a need to erect a new 33/11 kV sub-station in order to extend supply to an individual applicant, the distributing licensee shall estimate and recover the cost of such substation.

Provided that the distribution licensee shall estimate the cost of electrical plant and works based upon the approved latest cost data as published by the distribution licensee:

Regulation 5. Specific provision for extra high tension supply.- (1) The following provisions shall apply for the extra high tension supply

(a) in case of application for new connection, where such supply requires only extension of extra high tension line from the existing transmission substation to the consumer's premises, the distribution licensee shall estimate and recover the cost of such line and the cost of terminal and metering arrangements at the premises of the consumer, but not including the cost of meter and current transformer and/or potential transformer used for metering. The distribution licensee shall estimate and recover the cost of line on per kilometer basis and the cost of metering arrangements based on the latest cost data as published by the transmission licensee;.

(b) in case of application where it is required to erect a new power transformer or augment the capacity of existing power transformer with or without bay extension at a EHT substation, for extending supply to the applicant, the licensee shall estimate and recover the cost of the works in the manner mentioned in clause (b) of sub-regulation (1) of regulation 3.

(c) in case of application where there is need to erect , strengthen, augment or extend the EHT line in order to establish a power transformer for extending supply to the applicant, the distribution licensee shall estimate and recover the cost of such section of EHT line on per kilometre basis.

Provided that the distribution licensee shall estimate the cost of electrical plant and works based upon the approved latest cost data as published by the distribution or the transmission licensee:

Regulation 6. Recovery of cost: - (1) Subject to the provisions of sub-regulation (2), the balance cost of electrical plant and/or electric line after deducting the amount payable by the applicant under sub-regulation (1) of regulation 3, regulation 4 and regulation 5 shall be either invested by the licensee or paid for by the applicant and where licensee's investment approval does not permit this cost the licensee shall recover the total balance cost from the applicant: Provided that the balance cost shall be refunded to the applicant as and when new connections are installed or given from the electrical plant and/or electrical line on prorata basis with the interest rate of 8% compounded annually:

Provided further that notwithstanding anything contained in any other law for the time being in force, balance cost due shall be recoverable from subsequent applicant(s) and the bills of the consumer who had paid the balance cost shall be invariably flagged continuously until paid fully.

(2) The licensee shall render to the applicant / consumer the account of expenditure showing the excess or deficit in relation to initial estimated amount within three months after release of connection giving details of item wise estimation and actual expenditure along with the item wise figures of variance to the extent possible and, if applicant requires any additional information, the distribution licensee shall furnish the same within ten days of receipt of such requisition:

Provided that where the actual expenditure;

(a) is less than the initial estimated cost by more than 3% the licensee shall refund the excess amount, within 30 days from the date of submission of the account, or

(b) exceeds the initial estimated cost by more than 3%, the applicant shall pay the difference between the initial estimated cost and the actual expenditure to the extent of 3% only and any amount in excess of 3% shall be borne by the licensee.

Regulation 8. Manner of Payment: - The applicant shall, before the commencement of work, deposit 100% payment on notice of demand for amount payable under sub-regulation (1) of regulation 3, regulation 4, regulation 5 and regulation 7.

Regulation 10. Maintenance of Works.- (1) Notwithstanding any thing contained in any other law for the time being in force, all the works erected for providing supply in pursuance of requisition by the applicant or any portion of which may have been paid for by the applicant making requisition shall be maintained by the licensee and the licensee shall also have the right to supply electricity to any other prospective applicant through the said works and the said works shall become the property of the distribution licensee.

(2) The interface liability between the licensee and the consumer/applicant shall be metering equipment or the switchgear supporting the metering equipment.

Regulation 12. Departmental Charges.- In addition to the expenditure recoverable under these regulations, the applicant shall have to pay the departmental charges for the supply of electricity to him at the rate of 11% of the estimated cost of works.

Explanation.- For the purposes of this regulation, the expression "departmental charges" shall include establishment charges, tools and plant charges, audit and accounts charges, maintenance during construction, loss on stock and design charges and head office prorate expense.

PAYMENT OF ENERGY BILLS

As per **Instruction No. 151** of **HPSEB's Sales Manual (Part-1)**, the bills are expected to be delivered to the consumers with in 2days from the date of issue through the peon or by dak, where necessary & every effort must be made to see that the delivery of bills does not take more than 2 days. The normal consumers are required to be given 15 clear days for making the payment after the date of presentation. However, against the normal period of 15 days, the Govt. Departments have been allowed a clear grace period of 30 days for making the payment.

In the meeting held on 13th November, 2006 between the officers of HPSEB & I&PH Deptt., it was agreed by the HPSEB that the instructions would be issued to the HPSEB field units that a clear grace period of 30 days be given to I&PH Deptt. to liquidate their bills within the period shown on the bills by effecting the delivery of bills in time. The Chief Engineer (Commercial) HPSEB has accordingly issued instructions to Chief Engineers (Operation), HPSEB vide letter No.HPSEB/CE(Comm.)/T&S-16/06-15423-26 dated 24.01.07 (copy enclosed as **Annexure "A"**)

Some Important Tips

1. Avoid running of pumping stations during peak hours. In case it is not possible to do so, the cases for Peak Load Exemption may be consolidated at Chief Engineer's level for taking up the same for sanction by HPSEB.
2. Check the Capacitors once in a month in order to ensure that these are perfectly functional and in working order, thereby delivering the desired results. In case the Capacitors require testing / replacement the same may be done on priority.
3. The KWH, KVAH, KW and KVA readings should be taken on 1st of each month at 10:00 AM and recorded in the log book of the pumping stations so as to have the counter check on the actual consumption of electricity, Maximum Demand & the average power factor.
4. The Contract Demand should be based on the actual requirement of power by excluding the rated power of stand by pumps and revised accordingly. On the directions of HPERC, the revision of Contract Demand once and subsequently twice a year has been allowed by the HPSEB vide letter No. HPSEB/CE (Comm.) T&S-33(V)/04-05-14567-14866 dated 3.10.05 and No.HPSEB/CE (Comm.)/S-4PS/(V)/2006-07-19177-476 dated 29.03.07 respectively.(Copies enclosed as **Annexure "B" & "C"**)
5. The Photostat copy of A&A form of HPSEB for the release of electric connection should be kept in record so that Connected Load, Contract Demand as well as the supply voltage, as applied for or sanctioned, is readily available.
6. It has mostly been noticed that the energy bills under WPS category are not being issued on the right format (i.e for other than domestic consumers) as prescribed by the HPERC. Instructions have been issued by the CE(Comm.)HPSEB to all concerned to issue energy bills on the right format vide letter No. HPSEB /CE (Comm.) S-16/06-2259-62 dated 19/05/06.(copies enclosed as **Annexure "D" & "E"**). It may therefore be ensured that the energy bills are prepared by the HPSEB on the approved format.
7. It has been observed that there are too many mistakes in the energy bills. The arithmetical check should at least be exercised at JE/AE level in accordance with the Schedule of Tariff.
8. It should be ensured that a clear period of 30 days is allowed to the I & PH Deptt. for making the payment of electricity bills, otherwise the matter may be taken up with the officer

concerned of HPSEB, citing the instructions issued by the CE (Comm.) HPSEB on 24.01.07 (Annexure-A)

9. If the funds are available, payment of energy bills should be given priority over the other payments so as to avoid the surcharge on the energy bills.

10. It may be ensured that the SOP estimates are received complete in all respects, containing details of item wise estimation & single line diagram in accordance with the Regulation 6 of HPERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2005.

11. As per provision made in regulation 6(2) of the aforesaid Regulations, the HPSEB is required to render the account of expenditure in respect of SOP works giving details of item wise estimation and actual expenditure within three months after release of connection. Where ever any difficulty is being experienced in getting the utilization certificate, the matter may be taken up again with the HPSEB, quoting the above provision.

12. In the SOP Estimates, the cost of Energy Meter including CT & PT is some times being included by the HPSEB which is not in consistent with HPERC (Recovery of Expenditure for Supply of Electricity) Regulations, 2005.

13. Similarly it has been seen storage charges @ 3% are some times being charged extra, where as the equipment cost of electrical items are based on stock issue rates. As such the storage charges need to be excluded.

14. In some of the cases, it has also been observed that departmental charges @ 13.25 % as well as prorata share @ 7% are being levied, whereas the aforesaid regulations provide for 11% of the estimated cost of works as departmental charges which include establishment charges, tools and plant charges, audit and accounts charges, maintenance during construction, loss on stock and design charges and head office prorata expense.

15. The rates of initial security deposit under WPS category are Rs. 350 & Rs. 120 per KVA of the Contract Demand in urban and rural areas respectively for all the LWS/LI schemes w.e.f. 30th March,2005 {please refer to regulation 5 of HPERC (security deposit) Regulations, 2005}. It may therefore be ensured that the amount of security deposit is paid accordingly to the HPSEB. It is further added that where the amount payable exceeds 5 lacs, the security may be furnished in the form of Bank Guarantee.

Annexure "A"

H.P.STATE ELECTRICITY BOARD

No. HPSEB/CE (Comm.) T&S-16/06-15423-26

dated: 24/01/07

To

1. The Chief Engineer (OP) South,
HPSEB, Shimla-4.
2. The Chief Engineer (OP) North,
HPSEB, Dharamsala.
3. The Chief Engineer (OP),
Central Zone, HPSEB, Mandi.

Subject: Discussion held between I&PH Department and HPSEB Officers on 13/11/2006.

Sir,

During the course of discussions with I&PH authorities the issue of billing system of I&PH schemes came for discussion and it was pointed out that electricity bills are not delivered on due date by the concerned Sub Divisions of HPSEB due to which I&PH is facing difficulties to make the payments of the bills on due dates. It has also been pointed out that they are not getting the electricity bills on TOD metering system and as such night time concessions are not being made available to them.

It is therefore, requested that field units working under your control may be directed as under:-

1. As against the normal grace period of 15 days, the Govt. departments are allowed grace period of 30 days for making the payment of energy bills, as per instruction No. 151 of Sales Manual Part-I. Accordingly, clear grace period of 30 days be allowed to the electricity bills of I&PH Deptt. and the delivery of bills be also ensured on due date.

2. Though the entire Sub Divisions are not having computerized billing yet where billing is done through computerized system, necessary MRI Data be provided to I&PH Department on demand.

Yours faithfully,
Sd/-
Chief Engineer (Comm.),
HPSEB.Vidyut Bhawan,
Shimla-4.

Copy of above is forwarded to Engineer-in-Chief,I&PH Department, US Club, Shimla-1.

Sd/-
Chief Engineer (Comm.),
HPSEB.Vidyut Bhawan,
Shimla-4.

Annexure “B”**Sales Circular No.3/2005****HIMACHAL PRADESH STATE ELECTRICITY BOARD**

No.HPSEB/CE (Comm.)/T&S-33(V)/04-05-14567-14866

Dated: 3.10.05

To

All the Chief Engineers (OP),
In HPSEB.
All the Dy. Chief Engineer's/
Superintending Engineer's
Under (OP) Wings.
All the Addl. Superintending Engineer's/
Sr. Executive Engineers
Under (OP) Wings.
All the Executive Engineer's/
Asstt. Executive Engineer's/
Assistant Engineer's
Under (OP) Wings.

Sub: Amendment/Addition in Sales Manual (Part-I) Instruction No. 39.

Sir,

The following amendments/addition have been approved by the Board in Sales Manual (Part-I) Instruction No.39.

| Sl. No. | Existing | Approved |
|----------------|---|---|
| | Title: Reduction of load by consumers | “ Change of connected load/ contract demand” by consumers |
| 1. | Consumers who apply for reduction of load may be permitted to do so on production of revised test report. | 1. Consumers who apply for change of connected load/contract demand may be permitted to do so on production of revised A&A form and Test Report. However, incase there is change in Contract Demand without change in connected load only revised A&A form is required to be submitted. |
| 2. | Sanction for reduction of load may be accorded by the authority competent to sanction the total load existing before reduction. | 2. Sanction for change in connected load and / or Contract Demand shall be accorded by the authority competent to sanction the total load existing before change in Connected Load/ Contract Demand. |
| 3. | Advance Consumption Deposit already obtained from the consumers shall not be refunded. The monthly bills will, however, be regulated by the prevalent tariff based on the reduced load. | 3. Receipt of ACD and security shall be regulated as per the HPERC regulation on security deposit being implemented by the Board. |

| | |
|--|--|
| <p>4. On receipt of revised test report from the consumers be verified immediately in order to check the revised load and to avoid any dispute about the date of reduction of load to such cases.</p> <p>5. The consumers seeking reduction of load should be asked to give a notice of at least one-month to the Board to process the case.</p> <p>6. Cases covered by M.C.G. should be governed by Sales Manual (Section-II) in addition to above provisions.</p> <p>7. No reduction in load should be allowed during the first year w.e.f. the date of release of connection.</p> | <p>4. The revised Test Report/A&A Form received from the consumer shall be verified immediately in order to check the revised load and to avoid any dispute about the date of change of Connected Load.</p> <p>5. The consumer seeking change of connected load/contract demand should be asked to give at least one month notice to the Board to process the case.</p> <p>6. Deleted</p> <p>7. No change in connected load/contract demand should be allowed during the first year of release of connection.</p> <p>8. For subsequent revision of connected load/contract demand, the consumers can revise their Connected Load/Contract Demand once in a year.</p> <p>9. Board reserves the right to use the capacity as may become available due to reduction in Contract Demand/Connected Load by a consumer and consequent increase, if demanded by him shall be allowed subject to the availability of power with the Board.</p> |
|--|--|

In view of above the procedure mentioned above shall be deemed to be added in the relevant Instruction of Sales Manual Part-I.

sd/-

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

Copy forwarded for information and necessary action to the following:-

1. The Chief Electrical Inspector HP Govt., Block No.29, SDA Complex, Kasumpti, Shimla.
2. The Secretary, HPSEB, Shimla-4.
3. The Chief Accounts Officer, F&A Wing, HPSEB, Shimla-4
4. The Resident Audit Officer, HPSEB, Shimla-4
5. The Director (Enf. & EA)/Director (Tariff & SERC), in this office.
6. The Addl. Secretary to the Chairman & Sr.Private Secretaries to Members of the Board for the information of Chairman & Members of the Board.

sd/-

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

**Annexure “C”
Sales Circular No.5/2007**

H. P. STATE ELECTRICITY BOARD

No.HPSEB/CE (Comm.)/S-4PS/(V)/2006-07-19177-476

Dated: 29.03.07

To

All the Chief Engineers (OP) Wings, South,
In HPSEB.

All the Dy. Chief Engineer's/
Superintending Engineer's
Under (OP) Wings.

All the Addl. Superintending Engineer's/
Sr. Executive Engineers
Under (OP) Wings.

All the Executive Engineer's/
Asstt Executive Engineer's/
Assistant Engineer's
Under (OP) Wings.

Sub: Amendment in Sales Manual (Part-I) Instruction No. 39.(clause 7&8 of Sales Circular-3/2005)

Sir,

Keeping the representations of the consumers in view the revision of their connected load/ contract demand with in one year of release of connection and the orders of Hon'ble HPERC. in a reference case no. 214/06 to allow the consumers to revise the contract demand within the limits of their sanctioned load, the following amendments have been approved by the Board in Sales Manual (Part-I) Instruction No.39 .(clause 7&8 of Sales Circular-3/2005) :-

| Sr.No. | Existing Provision | Amended Provision |
|--------|--|---|
| 7. | No change in connected load/contract demand should be allowed during the first year of release of connection. | No change in Connected Load should be allowed during the 1 st year of release of connection. However, consumer seeking the revision of connected load during 1 st year of release of connection be referred to the Board. |
| 8. | For subsequent revision of connected load/contract demand, the consumers can revise their Connected Load/Contract Demand once in a year. | The consumers can revise their contract demand with in the limit of their sanctioned load twice in a year. |

All the provisions of the aforesaid Sales Circular shall remain unchanged.

This amendment shall come under into force with immediate effect.

This amendment supersedes the Tariff Circular No.1/2007. Circulated vide this letter no. HPSEB/CE(Comm.)/SERC-06/2007-17660-17950 dated 17.03.2007

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

Copy forwarded for information and necessary action to the following:-

1. The Chief Electrical Inspector HP Govt., Block No.29, SDA Complex, Kasumpti, Shimla-9.
2. The Secretary, HPSEB, Vidyut Bhawan, Shimla-4.
3. The Chief Accounts Officer, HPSEB, Shimla-4
4. The Resident Audit Officer, HPSEB, Shimla-4
5. The Director (Enf. & EA)/Director (Tariff & SERC), in this office.
6. The Sr. Private Secretary cum Addl. Secretary to the Chairman & Sr.Private Secretaries to the Members of the Board, HPSEB, Shimla-4.

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

Annexure “D”

IMPORTANT
NEEDS IMMEDIATE COMPLIANCE
UNDER HPERC DIRECTIONS

HIMACHAL PRADESH STATE ELECTRICITY BOARD

No.HPSEB/CE (Comm)/S-16/06-2259-62

Dated 19/05/06

To

The Chief Engineer (OP) South,
HPSEB, Vidyut Bhawan,
Shimla-4.

Subject: Details of tariff and subsidy to be got printed on bill formats for information of the General Public.

Reference: This office letter No. HPSEB/CE (Comm.)/Tariff-1/2004-05-9254-68 dated 20.11.04(copy enclosed for ready reference).

Sir,

Kindly refer to this office letter under reference vide which formats of Energy Bills for Domestic consumers as well as non-domestic category consumers alongwith details of tariff and subsidy in respect of different categories of consumers to be got printed on the bill formats was enclosed on the direction of HPERC for compliance.

It has been brought to the notice of the Board Management by the I&PH Department that energy bills are not being issued on revised formats (i.e. for other than Domestic consumers) to them. Sample copies of the bills prepared on obsolete bill forms as supplied by the Engineer-in-Chief, I&PH Department are enclosed herewith for reference and to corroborate the point of wrong use of bill formats.

You are, therefore requested to look into the matter as compliance to the direction of HPERC is necessary and direct all concerned to issue energy bills on the right formats as prescribed by HPERC.

Kindly acknowledge the receipt of this letter.

DA: As above.

Yours faithfully,

sd/-

Chief Engineer (Comm.),
HPSEB, Vidyut Bhawan,
Shimla-4.

Copy of the above along with the enclosures is forwarded to the following for information and similar necessary action and to ensure that right formats of energy bills are used by the field units:-

1. Chief Engineer (OP) Central Zone, HPSEB, Mandi.
2. Chief Engineer (OP) North, HPSEB, Dharamsala.

DA: As above.

Copy of the above is forwarded to the Engineer-in-chief I&PH Department U.S Club Shimla with reference to his letter No. IPH-SE- P&I-II-Consultant (Elect)/05-06-297-313 dated 20.04.06 for information.

sd/-

Chief Engineer(Comm.),
HPSEB, Vidyut Bhawan.
Shimla.

Annexure "E"

HIMACHAL PRADESH STATE ELECTRICITY BOARD
ELECTRICITY BILL for other than DOMESTIC CONSUMERS

Address..... Name of Sub-Division.....
 Telephone Office
 Account No..... Number Complaint.....
 Category..... Bill No.
 New Reading date Period of Issue Date
 Old reading date tariff slab Due date By Cheque
 By cash

| Connected Load (kw) | | Meter reading | | Consumption kwh or kvah | Extra due to LT metering | Bill based on |
|-------------------------------|--|---------------|-----|-------------------------|--------------------------|---------------|
| Contract Demand (kva) | | New | Old | | | |
| Maximum Recorded Demand (kva) | | Normal | | | | |
| | | Peak | | | | |
| | | Night | | | | |

| S.No | Description of item | Amount | E.Duty | Mc Tax | Total Payable |
|------|--|--------|--------|--------|---------------|
| | | 1 | 2 | 3 | 4 |
| 1 | Outstanding Amount(+) | | | | |
| 2 | Current energy charges [Normal](+) | | | | |
| 3 | Current energy charges [Night](+) | | | | |
| 4 | PLEC[Peak Hours] (+) | | | | |
| 5 | Demand Charges[Normal] + | | | | |
| 6 | PLVC(+) | | | | |
| 7 | Penalty for Overdrawl, if any (+) | | | | |
| 8 | Consumer service charge(+) | | | | |
| 9 | P.F.Surcharge(+) | | | | |
| 10 | Meter rent(+) | | | | |
| 11 | Service rent(+) | | | | |
| 12 | Sundry Charges(+) | | | | |
| 13 | Sundry Allowance(-) | | | | |
| 14 | Av. Adjustment(-) | | | | |
| 15 | HV Rebate,if any on item(2+3+4) (-) | | | | |
| 16 | Sub-Total: | | | | |
| 17 | Stabilization Surcharge 3% on item 16(+) [up to March 2005] | | | | |
| 18 | Grand Total [16+17] | | | | |
| 19 | Amount Payable by due date | | | | |
| 20 | Late payment Surcharge 1% on item 19(Excluding ED &MC Tax) (+) | | | | |
| 21 | Amount payable after due date | | | | |

Sub Divisional Officer
 Receipt No.

HPSEB Receipt Stub

| Sub-Division | Tariff type & Account No. | E.duty | | E.Tax | | Total |
|-------------------------------|---------------------------|--------|-------|--------------------------|--------|-------|
| | | | | | | |
| Amount payable after due date | | | | | | |
| SOP | | E.Duty | E.tax | Payment received through | | |
| | | | | Cash | Cheque | |
| | | | | Cheque No. | | |
| | | | | date | | |

| | | | | |
|-----------------|--------------------------|----------|----------------------|--|
| Cashier's Sign. | | Due date | By Cheque By Cash | |
| | CCR book/page No/S.R.No. | | | |