

KERALA STATE ELECTRICITY REGULATORY COMMISSION

THIRUVANANTHAPURAM

SCHEDULE OF TARIFF AND TERMS AND CONDITIONS FOR RETAIL SUPPLY FOR COCHIN PORT TRUST

WITH EFFECT FROM 1-7-2012 to 31-3-2013

(Vide order No. OP 23 of 2012 dated 25-07-12)

Unless the context otherwise requires words and expressions used in this schedule and defined in the Electricity Act, 2003 or the Regulations specified by the Kerala State Electricity Regulatory Commission and the Terms and Conditions of Supply approved by the Commission shall have the meaning respectively assigned to them in the Acts or Regulations mentioned above.

The tariff mentioned in this schedule shall apply to Consumers to whom the Cochin Port Trust has undertaken or undertakes to supply electricity notwithstanding anything to the contrary contained in any agreement entered into with any consumer earlier by CoPT/Government or any of the Tariff Regulations or rules and/or orders previously issued.

The rates specified in this schedule are exclusive of Electricity Duty and/or surcharge and/or any other cesses, taxes, minimum fees, duties and other impositions existing or that may be levied or imposed in future by the Government or the Commission, which are payable in addition to the charges as per the tariff mentioned in this Schedule.

PART A - HT TARIFF

General conditions for HT tariff

1. For the purpose of conversion from kVA to kW or vice versa, an average power factor of 0.9 shall be taken.
2. Billing demand shall be the recorded maximum demand for the month in kVA or 75% of the Contract demand (as per the agreement) whichever is higher.
3. When the actual maximum demand in a month exceeds the Contract demand as per the agreement the excess demand shall be charged at a rate of 150 percent of the demand charges applicable.
4. All HT consumers shall install Time of Day (ToD) meters at their cost. They shall undertake maintenance and replacement of the defective meters, CT/PT, and other equipments owned by them at their cost. If they fail to do so within two months from the date of intimation they will be charged 50% extra over the prevailing rates applicable to them for both Demand and Energy.

5. All HT consumers (except Cinema theatres, drinking water supply pumping stations of Kerala Water Authority, Corporations, Municipalities and Panchyats) shall be billed on differential pricing system as per the formula indicated in the Annexure A to this Schedule.

6. The Monthly minimum payable shall be the minimum guarantee amount as per minimum guarantee agreement, if any, or the billing demand as per condition 2 above, whichever is higher. This applies even during the period of disconnection of power supply.

7. In the case of factory lighting and colony supply of HT (Industrial) consumers, the applicable tariff shall be subject to the following:

- a. Factory lighting – When the total connected lighting load of the factory is less than or equal to 5% of the connected load for power, it can be tapped off from the power mains without segregation. When the above lighting load exceeds this limit, the whole lighting load should be segregated and metered by a sub-meter and lighting consumption in excess over 10% of the bulk supply consumption for power shall be charged at 7 paise extra per kWh for EHT and 25 paise per kWh for HT consumers.
- b. Colony Supply: Colony supply when taken from the Consumer's HT supply shall be segregated and metered by means of a sub-meter and the consumption will be charged at 25 paise/kWh extra for HT consumers.
- c. If no segregation is made as specified in (a) or (b) above, the bill amount of the consumer shall be increased for demand and energy charges by 20% for HT consumers.

8. Power factor incentives/penalties as per Annexure B shall be applicable to all HT Consumers.

HT Tariff

This tariff shall be applicable to all High Tension consumers to whom the CoPT has undertaken or undertakes to supply energy. The expression High Tension (HT) consumer means a consumer who is supplied with electrical energy at a voltage of 33,000 Volts, 22,000 Volts or 11,000 Volts under normal conditions, subject however to the percentage variation indicated in the agreement with the CoPT or allowed under the Kerala Electricity Supply Code, 2005 specified by the Kerala State Electricity Regulatory Commission.

HIGH TENSION (HT – I) INDUSTRIAL

Tariff applicable to general purpose industrial load including Printing Presses (including presses engaged in printing dailies), Plantations, granite crushing units, dairy farms, hatcheries, software development units, Seafood Processing Units, all non-agricultural pumping, drinking water pumping for public by Kerala Water Authority, corporations, Municipalities and Panchayats.

Normal Rates

Demand Charge (Rs./kVA of Billing Demand/Month)	300
Energy Charge (Paise/kWh)	410

HIGH TENSION (HT – II) NON-INDUSTRIAL / NON-COMMERCIAL

Tariff applicable to non-industrial, non-commercial consumers such as Public Offices run by Central/State Government, Local Bodies, Technical and Educational Institutions and Hostels run by or affiliated to Universities or Government Departments or Government Hospitals or Government Nursing Homes, Charitable Institutions, offices of political parties approved by Election Commission of India and Colonies supplied with energy at HT and HT domestic.

Normal Rates

Demand Charge (Rs./kVA of Billing Demand/Month)	350
Energy Charge (Paise/kWh)	410

Note: The HT Domestic connection shall be effected subject to the following conditions:

1. The connections provided shall be for the own domestic use of the consumer. He shall not install separate meters for different flats/rooms in his building/complex
2. He shall not rent out the rooms/flat/apartments and shall not resell the power supplied to the occupants inside or outside the premises to which HT connection is provided
3. If the apartment/flat/room is rented out or made use of for any other purpose he shall take individual LT connection at his cost. LT tariff shall apply in such cases. He shall maintain the transformer and allied equipments at his cost in such cases.

HIGH TENSION (HT – III) AGRICULTURE

Tariff applicable to agricultural consumers for all cultivations including dewatering, lift irrigation, sericulture, poultry farms, silk worm breeding, livestock farms, piggery farms, and combination of dairy and livestock farms.

Normal Rates

Demand Charge (Rs./kVA of Billing Demand/Month)	165
Energy Charge (Paise/kWh)	180

HIGH TENSION (HT – IV) COMMERCIAL

Tariff applicable to commercial establishments such as airports, hotels/restaurants, lodges, hostels, guest/rest houses, travelers bungalows, cold storage, freezing units, business houses, film studios, cinema theatres, self financing educational institutions, hospitals other than government owned, private nursing homes, milk chilling plants, private scanning units, private X-ray units, private clinical laboratories, offices/ telephone exchanges of telecom companies, radio stations, television broadcasting companies, television channels, LPG Bottling plants and construction works.

Normal Rates

Demand Charge (Rs./kVA of Billing Demand/Month)	400
Energy Charge (Paise/kWh)	A) Up to 30,000 units (All units) - 550 B) Above 30,000 units (All units) - 650

PART B - LOW TENSION (LT) TARIFF

The expression 'Low Tension Consumer' (LT) means a consumer who is supplied with electrical energy at low or medium voltage by the CoPT. The voltages are however being subject to percentage variations allowed under Kerala Electricity Supply Code, 2005.

General Conditions

1. The tariff minimum payable by all LT consumers other than LT-VI (D) shall be the fixed charge of respective category.
2. All LT Industrial and LT Agricultural consumers are required to install static capacitors approved by ISI for power factor improvement, for their inductive load as recommended in the Annexure C attached and obtain the permission of the Licensee.
3. For LT Industrial and Agricultural consumers who have not installed ISI approved capacitors of recommended value the rate applicable shall be higher by 20% (both on fixed and energy charges) applicable to the respective categories.
4. For welding sets without ISI approved capacitors of recommended value the fixed charge and energy charge shall be higher by 30%.
5. In the event of static capacitor becoming faulty or unserviceable the consumer shall forthwith intimate the matter to the concerned Officer of the electrical section/ division and the consumer shall make immediate arrangements for repair.
6. If the capacitor is not put back into service duly repaired and to the satisfaction of the CoPT within one month, enhanced charges as per item 3 or 4 above shall be payable for the whole period during which the capacitor was faulty.
7. Consumers (other than LT-IV Industrial and LT-V Agriculture) who have segregated their power loads may install ISI approved static capacitors for power factor improvement as recommended in the Annexure C to this Schedule and obtain approval of the CoPT
8. Power supply to common facilities such as fire fighting, common lighting, lifts, water pumping, sewage treatments facilities, waste disposal facilities, etc. in apartment complexes and individual houses for domestic use shall be billed under domestic tariff.
9. Power supply to common facilities in the multi-stored building with nondomestic/ commercial occupation only shall be charged under the appropriate LT-VI or LT-VII tariff. When there is a combination of occupation of different categories of

consumers, common facilities shall be charged at the highest LT-VI or LT-VII tariff applicable among such categories.

10. Power supplies to common facilities, in multi-storied buildings mainly for domestic occupation shall be under the domestic tariff if the connected load other than domestic is less than 5% of the total load.
11. ToD tariff shall be applicable to LT IV Industrial consumers having connected load 20 kW and above and LT I(a) domestic (3Phase) consumers having monthly consumption of above 500 units. The charges and other terms & conditions for TOD tariff is given as Annexure 'D & E' to the schedule. The scheme shall be effective from 1-1-2013.

LOW TENSION – I (LT- I)

The tariff applicable to supply of electrical energy for Domestic use (single phase/ three phases).

Fixed charges	Three phase : Single Phase	Rs.60 per consumer per month Rs.20 per consumer per month
Energy Charges in paise per unit	0-40 units 41-80 units 81-120 units 121-150 units 151-200 units 201-300 units 301-500 units Above 500 units	150 240 290 360 480 600 750 650 paise (for all units)

Note: Fixed charges shall not be applicable for single phase consumers having average consumption of 40 units or below per month for the previous six months.

Note:

1. Electricity used for water supply projects for pumping water solely for domestic purpose coming under local self government and beneficiaries committees, schemes under Jalanidhi, Jaladhara, Swajaladhara, and similar water supply projects coming under water supply societies, drinking water supply schemes in SC/ST and laksham veedu settlement colonies and taken over and managed by three tier panchyaths, all social drinking water supply schemes which are established through MP/MLA fund/PPS/three tier panchyat fund, and Rajeev

Gandhi Drinking water schemes managed by beneficiary groups where water is used only for domestic purpose, shall be charged under Domestic tariff.

2. Homestay units approved by Department of Tourism shall be billed under LT I(a) domestic.
3. Domestic consumers shall be allowed to utilize electrical energy in some portion of their residence for their own use for purposes other than domestic as defined under LT-I when such connected load does not exceed 20% of the total connected load or 500 Watts in their premises. When connected load other than domestic use in such cases exceeds the above 20% or 500 W whichever is less, such loads shall be segregated and separate service connection obtained under appropriate tariff. When this is not done, the tariff applicable to the whole service shall be at the appropriate tariff applicable to the connected load used for purpose other than domestic, if such tariff is higher than the tariff for LT-I.

LT I (b):-

Tariff applicable to Libraries and reading rooms other than Libraries and reading rooms of educational institutions, sports/arts clubs, sailing/swimming activities and Gymnasiums (with connected load not exceeding 2000 W) and Offices of political parties approved by Election Commission of India.

Fixed Charges

Single phase – Rs. 20 per consumer per month

Three Phase – Rs. 60 per consumer per month

Slab	Energy charges (Paise/kWh)
Up to 40 kWh	200
41 to 80 kWh	310
81 to 120 kWh	360
121 to 150 kWh	450
151 to 200 kWh	520
201 to 300 kWh	620
Above 300 kWh	750

LOW TENSION – II (LT- II) COLONIES

Tariff applicable to colonies of HT and EHT consumers where resale of energy is not involved and where supply at a single point is given at LT by the CoPT for domestic use in staff quarters, street lighting and pumping water for domestic use, colonies of universities, State/Central Government Departments, Public Institutions like Companies/Boards/Corporations under State/Central Government, Hospitals therein, colonies of Railways, State/Central Government undertakings, Postal/ BSNL/ AIR/ Doordarshan and private colonies.

LT - II Colonies

Fixed Charge (Rs./Month)	2200
Energy Charge (Paise/kWh)	650

Note: In Special cases where supply is given at more than one point each supply point shall be considered as separate consumer for the purpose of billing.

LOW TENSION – III (LT- III) TEMPORARY CONNECTION

Tariff applicable for illumination, exhibition, festivals, public meeting, fairs and shore supply to Vessels.(single or three phases)

LT - III Temporary connections

Energy Charge (Paise/kWh) -	1350
OR	
Daily minimum Rs.130 /kW or part thereof of connected load, whichever is higher	

Note: 40% concession in the rates shall be allowed if the connection is for (a) exhibitions conducted by Local bodies/Government educational institutions/recognized private educational institutions (b) festivals of public religious worship centers for illumination, public address system and security lighting.

LOW TENSION – IV (LT- IV) – INDUSTRY

Tariff applicable for general purpose industrial loads (single or three phase) viz., grinding mills, flour mills, oil mills, rice mills, saw mills, ice factories, rubber smoke houses, prawn peeling units, floriculture activities, tyre vulcanizing/retreading units, workshops using power mainly for production and/or repair, pumping water for nonagricultural purpose, public waterworks, sewage pumping, power laundries, hatcheries, screen printing of glass ware or ceramic, printing presses, bakeries (where manufacturing process and sales are carried out in the same premises) diamond cutting units, stone crushing units, book binding units with allied activities, garment making units, electric crematoria, pyrolators installed by local bodies, mushroom farms, shrimp farms, SSI units engaged in computerized colour photo printing, computer consultancy service units with SSI registration engaged in software services and data processing activities and desktop publishing, software units, audio/video cassette/CD manufacturing units, dairy farms, agricultural nurseries (without sale), tissue culture units, Seafood processing units, granite cutting units (where boulders are cut into sheets in the same premises), Cardamom drying and curing units, and units carrying out extraction of oil in addition to the filtering and packing activities carrying out in the same premise under the same service connection, manufacturing rubber sheets from latex, telemetry stations of KWA, processing of Milk by pasteurization, storage & packing, Granite slabs manufacturing units.

LT - IV Industrial

Fixed Charge Rs. per kW or part thereof per Month	60
Energy Charge (Paise/kWh)	425

Note:

- a. Consumers having connected load 10HP or below, the fixed charges shall be Rs.60/consumer per month.
- b. If ISI approved static capacitors are not installed by software units and similar consumers to compensate the inductive load including air conditioners, 25% extra shall be charged on the total fixed charge inclusive of entire connected load. Software technology industries requiring new connection shall be provided connection only if they install ISI approved static capacitors to compensate the inductive load of air conditioners if any. The entire consumption and connected load of above consumers shall be charged at industrial tariff (LT IV).
- c. Workshops with Automobile service stations shall segregate the workshop load for availing the benefit of industrial tariff.

LOW TENSION –V (LT- V) AGRICULTURE

Tariff applicable to, agricultural consumers including dewatering and lift irrigation, poultry farms, silk worm breeding units livestock farms (minimum number of milch cattle shall be five) and combination of livestock and dairy farms, Aquaculture, rabbit farms, piggyery farms (Minimum six breedable adult animals in the farm)

LT - V Agriculture

Fixed Charge Rs. per kW or part thereof per Month	6
Energy Charge (Paise/kWh)	150

In all cases ISI approved capacitors of recommended value (See Annexure C) shall be installed for inductive load.

LOW TENSION –VI (LT- VI) NON-DOMESTIC

LT VI (A)

Tariff applicable to premises of religious worship, institutions imparting religious education, government or aided private educational institutions, libraries and reading rooms of educational institutions, convents, Government Hospitals, X-Ray units, laboratories and mortuaries attached to government hospitals, Blood banks of IMA/Govt.Hospitals/Local Self Govts, Private hospitals registered under Cultural, Scientific and Charitable Societies Act and exempted from payment of income tax.

LT - VI (A) Non-Domestic

Fixed Charge Rs. per kW or part thereof per Month	50
Energy Charge (Paise/kWh)	Up to 500 kWh - 480 Above 500 kWh - 550

LT- VI (B)

The tariff applicable to offices and institutions under State/Central Government, Corporations, Boards under State/Central Government/ Local bodies, Kerala Water Authority, KSRTC, KSWTC, hostels of educational institutions affiliated to Universities or under the control of the director of technical/medical education/public instruction or such other offices of government or run by the government or state social welfare board, hostels run by institutions that are registered under cultural, scientific and charitable societies Act and exempted from payment of income tax, KHRWS pay wards and institutions of KHRWS, travelers bungalows, guest/rest houses under government, type writing institutes, private hospitals, private clinical laboratories, X-ray units, private mortuaries, private blood banks, private scanning centres, offices of advocates / chartered accountants/ Company Secretary/ Consulting Engineers / tax consultants architects / social organizations, press clubs, museum/zoo, computer training institutes, offices of political parties not approved by the Election Commission of India and collection centres of 'FRIENDS' single window service centers under department of Information Technology, Police Clubs and Akshaya-e-centers

LT - VI (B) Non-Domestic

Fixed Charge Rs. per kW or part thereof per Month	70
Energy Charge (in Paise per unit)	
Up to 500 kWh	550
Above 500 kWh	650

LT- VI (C)

Tariff applicable to offices or institutions under Income tax/Central Excise, Customs, offices under motor vehicles department/ sales tax department/ excise department, offices of all other tax/revenue collecting departments under state/central government (other than local bodies), department of posts, light houses, pawn brokers, banks, ATM Counters, railways (including railway stations) offices of Airport Authority of India (except airport) Office of Sub-Registrars, Micro Financing Institutions and any other LT categories not included in this schedule.

LT - V I (C) Non-Domestic

Fixed Charge Rs. per kW or part thereof per Month	180
Energy Charge (in Paise per unit)	
Up to 500 kWh	700
Above 500 kWh	850

LT- VI (D)

Tariff applicable to orphanages, anganawadis, schools and hostels of mentally retarded students, deaf/dumb/blind/physically handicapped persons, old age homes, Cheshire homes, SoS Children's Villages, polio homes, cancer and palliative care centers, HIV rehabilitation centers and other similar institutions recognized by the Government

LT - VI (D) Non-Domestic

Fixed Charge Rs. per kW or part thereof per Month	Nil
Energy Charge (in Paise per unit)	150

The tariff minimum payable shall be:-

Single phase – Rs. 15 per consumer per month

Three Phase – Rs. 25 per consumer per month

LOW TENSION –VII (LT- VII) COMMERCIAL

LT VII (A)

Tariff for commercial consumers such as display lights, cinema studios, commercial premises, hotels and restaurants (having connected load exceeding 1000 W), showrooms, business houses, private hostels/lodges/guest/rest houses, freezing plants, cold storages, milk chilling plants, bakeries (without manufacturing process), Audio/video cassette recording/duplication units, CD recording units, petrol/diesel/LPG/CNG bunks, Automobile service stations, all construction works, installations of cellular mobile communications/cable TV networks, satellite communications, offices/ exchanges of telecom companies, Offices or institutions of AIR, Doordarshan, radio stations, insurance companies, call centers and marble cutting units, LPG Bottling plants, Ornamental fish breeding, House Boats, computerized wheel alignment centres, Agricultural Nurseries(with sale) and Units carrying out filtering and packing and other associated activities using extracted oil brought from outside.

LT VII (A) Commercial

Fixed charge (Rs/ kW per month)	Single Phase 60.00 Three phase 120.00
Energy Charge (paise per unit)	
Up to 100 units per month	545
Up to 200 units per month	605
Up to 300 units per month	675
Up to 500 units per month	730
above 500 units (all units)	850

Note:

1. If the agriculture nurseries do sale also in the same premises, the tariff applicable shall be LT VII A if there is no segregation of load for pumping.
2. If the LTVII A consumer opts for segregation of their motor load for pumping and installs separate meters, LT IV tariff shall be applied for pumping and LT VII A tariff shall be applied for other activities in the same premises.

LT- VII (B)

Tariff applicable to consumers having connected load not exceeding 1000 Watts of shops/bunks/hotels and restaurants/telephone/fax/email/photocopy booths and internet cafes. When connected load in the above cited cases exceeds 1000 Watts the consumers shall be charged under LT VII (A). If monthly consumption exceeds 200kWh, entire consumption shall be charged under LT VII (A) tariff.

LT - VII (B) Commercial

Fixed Charge Rs. per kW or part thereof per Month	40
Energy Charge (Paise/kWh)	
Upto 100 kWh	400
Above 100 kWh	600

LT- VII (C)

Tariff applicable to cinema theatres, circus, Sports/arts clubs or sailing/swimming activities and Gymnasiums having connected load exceeding 200

LT - VII (C) Commercial

Fixed Charge Rs. per kW or part thereof per Month	90
Energy Charge (Paise/kWh)	
Up to 1000 kWh	500
Above 1000 kWh	650

Note: If the consumption of consumers under LT VII Commercial (A) or (B) exceeds a particular block, the entire consumption shall be charged under the next block. For example if the consumption exceeds 100 units but does not exceed 200 units, the entire consumption is chargeable at the rates applicable to 200 units block

LOW TENSION –VIII (LT- VIII) TEMPORARY EXTENSION

Applicable to temporary extension taken from consumers premises

LT - VIII Temporary extensions

Fixed charges per day of Rs.65/kW or part thereof of connected load plus the application fee, testing fee etc.,

LOW TENSION – I X (LT- I X) PUBLIC LIGHTING

Tariff applicable to various categories of public lighting per lamp. The Lamp/bulb, holder, condenser and choke shall be supplied by the local bodies free of cost for initial installation and periodical replacement.

A. COMPOSITE TARIFF

TYPE OF LAMP	Watts	Rs/lamp/month for 4 burning hrs per day	Rs/lamp/month for 6 burning hrs per day	Rs/lamp/month for 12 burning hrs per day
ordinary	40	14	22	43
ordinary	60	22	32	65
ordinary	100	36	54	108
Fluo tube	40	14	22	43
Fluo tube	80	29	43	86
Flood light	1000	360	540	1080
MV lamp	80	29	43	43
MV lamp	125	45	68	135
MV lamp	160	58	86	173
MV lamp	250	90	135	270
MV lamp	400	144	216	432
SV lamp	70	25	38	76
SV lamp	80	29	43	86
SV lamp	100	36	54	108
SV lamp	125	45	68	135
SV lamp	150	54	81	162
SV lamp	250	90	135	270
CFL	11	2	3	6
CFL	22	4	6	12

CFL	44	8	12	24
CFL	18	3	5	10
CFL	36	6	10	19
CFL	72	13	19	39
CFL	15	3	4	8
CFL	30	5	8	16
CFL	36	6	10	19
CFL	72	13	19	39
CFL	144	26	39	78
LED	18	3	5	10
MV lamp	1200			1296
SV lamp	250			270

B . METERED STREET LIGHTS

TARIFF FOR METERED STREET LIGHTS

Fixed charge (Rs/ meter/month)	30.00
Energy Charge (paise per unit)	275

1. When public lighting is to be done after extension of lines, the beneficiaries shall pay the cost of the work as per terms and conditions of supply approved by the Commission
2. In campuses where lines and lights are provided by the consumer, LT metered Supply shall be provided at 275 paise /kWh plus fixed charge of Rs.30 per meter per month subject to other conditions regarding the payment of cost of the work.
3. Supply to Light houses when taken from the CoPT's street mains will be charged at appropriate public lighting tariff. Where low tension metered and independent supply is provided, the rate applicable will be 275 paise/kWh plus fixed charge at Rs.30 per meter per month and subject to other conditions regarding payment of cost of the work.
4. Metered supply will be given by the CoPT in areas where the CoPT's Low Tension distribution lines exist, for special type of lamps, rates for which are not given in the annexure, provided the lamps are installed and maintained by the local bodies at their cost. The tariff applicable in such cases shall be 275 Ps per unit plus fixed charge at Rs 30 per meter per month, subject to other conditions regarding payment of cost of the work.
5. Separate charges shall not be collected from the consumers towards services charges or meter hire.
6. Electricity duty is not payable for public lighting as per the Kerala Electricity Duty Act, 1963.

Annexure – A

ToD Tariff of HT Consumers

The ToD tariff applicable for HT consumers for energy consumption with effect from 01.07.2012 is given below:

Rates
(% of Ruling Charges)

	Normal period (6:00 hrs to 18:00 hrs)	Peak period (18:00 hrs to 22:00 Hrs)	Off peak (22:00 hrs to 6:00 hrs)
Demand charges	100 %	150 %	80 %
Energy charges	100 %	140 %	85 %

Billing of the demand charges:

- (a) Demand Charge for Normal time (6:00 hours to 18:00 hours) shall be: *Billing Demand during normal time x Ruling Demand Charge /kVA x 12/24*
- (b) Demand Charge for Peak time (18:00 hours to 22:00 hours) shall be: *Billing Demand during peak time x Ruling Demand Charge /kVA x 1.50x 4/24*
- (c) Demand Charge for Off-peak time (22:00 hours to 6:00 hours) shall be: *Billing Demand during off-peak time x Ruling Demand Charge /kVA x 0.80x 8/24*

Total demand charges = (a) + (b) +(c)

Billing of Energy charges:

The billing of the energy charge for HT consumers shall be done as follows.

- a) Normal time: *Consumption during normal time x ruling energy rate / unit.*
- b) Peak time : *Consumption during peak time x ruling energy rate / unit x 1.40*
- c) Off-peak time : *Consumption during off-peak time x ruling energy rate/unit x 0.85*

Total energy charge during a month = (a) + (b) + (c)

Other conditions:

1. Ruling demand/energy charges shall be the normal period demand/energy charges as per notified tariff.
2. Billing demand in normal and off-peak period during a month shall be the recorded maximum demand or 75% of the contract demand whichever is higher. Billing demand for peak hours shall be the recorded maximum demand.
3. Excess demand
charges: Excess demand charges shall be applicable to the recorded maximum demand in excess of contract demand during normal period and peak period, which shall be charged **at 50% extra** (ie., excess demand during normal/peak period x ruling demand charges x 0.5). Excess demand charges during off-peak period shall be applicable only if the recorded maximum demand during off peak period is in **excess of 130%** of the contract demand.
4. Procedure for billing
ToD tariff shall be as given in Annexure-F

Annexure – B

Power factor incentive and penalty

The following incentive and penalty shall be applicable to HT and EHT consumers power factor improvement

Power factor range	Incentive
Power factor between 0.9 to 1.00	0.25% of energy charges for each .01 unit increase in power factor from 0.9
Power factor range	Penalty
Power factor below 0.90	1% energy charge for every 0.01 fall in power factor from 0.90

ANNEXURE – C

Recommended values of Static capacitor in kVAR for power factor improvements

A. Induction Motors (LT)

Sl.No.	Total Motor Rating (HP)	KVAR rating of capacitors insisted	Sl no	Total MotoRating (HP)	KVAR rating of capacitors
1	Upto 3	1	8	Above 25 to 30	10
2	Above 3 to 5	2	9	Above 30 up to 40	12
3	Above 5 up to 7.5	3	10	Above 40 up to 50	14
4	Above 7.5 to 10	4	11	Above 50 up to 60	18
5	Above 10 up to 15	5	12	Above 60 up to 80	22
6	Above 15 up to 20	6	13	Above 80 up to 100	25
7	Above 20 up to 25	7.5	14	Above 100 up to 130	35

B. WELDING TRANSFORMERS (LT)

Sl.No.	Rating of welding Transformers in KVA	KVAR rating of capacitors insisted	Sl no	Rating of welding transformers In KVA	KVAR rating of capacitors
1	1	1	16	16	12
2	2	2	17	17	13
3	3	2	18	18	13

4	4	3	19	19	14
5	5	4	20	20	15
6	6	4	21	Above 20 to 22	16
7	7	5		Above 22 to 24	17.5

8	8	6		Above 24 to 26	18
9	9	7.5		Above 26 to 28	20
10	10	7.5		Above 28 to 30	21
11	11	8		Above 30 to 35	24
12	12	9		Above 35 to 40	27.5
13	13	10		Above 40 to 45	32.5
14	14	10		Above 45 to 50	35
15	15	11			

Annexure - D
ToD Tariff for Domestic Consumers

Applicable to Domestic consumers who consume more than 500Units/month.

	Normal Period (6 hrs to 18 hrs)	Peak Period (18 hrs to 22 hrs)	Off Peak Period (22hrs to 06 hrs)
Charges for consumption above 500 Units/Month	100% (Rs 6.50/Unit)	120% (Rs 7.80/Unit)	90% (Rs 5.85/Unit)

Note

1. Six months consumption shall be monitored from normal monthly readings during January and July every year. If the average monthly consumption for first or second half of the year is above 500 Units , the consumer will be brought under ToD System after installing ToD meter in the premises.
2. ToD based billing will be done whenever the monthly consumption exceeds 500 Units. If the consumption falls below 500 Units/month in any month slab based billing shall be followed.
3. This shall be effective from 1-01-2013 for those consumers who consume more than 500 Units/month average based on the average consumption for the period from 01-07-12 to 1-01-2013.

Annexure - E
ToD Tariff for LT-IV Industrial Consumers

1. ToD scheme shall be applicable for LT industrial consumers having Connected load of 20 kW and above.

	Normal Period	Peak Period	Off Peak Period
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	(6 hrs to 18 hrs)	(18 hrs to 22 hrs)	(22hrs to 06 hrs)
Demand Charges & Energy Charges.	100 %	120 %	80 %

Other conditions

- The ToD scheme shall be effective from 01-01-2013 □ Ruling demand/energy charges shall be as per the rates given below:
Demand charges Rs. 100 per kVA per month
Energy Charges 425 per /unit
- Billing demand in normal and off peak period during a month shall be the recorded maximum demand or 75% of the contract demand whichever is higher during normal/off peak period. Billing demand for peak period shall be the recorded maximum demand.
- Excess demand charges: Excess demand charges shall be applicable to the recorded maximum demand in excess of the contract demand during normal period and peak period, which shall be charged **at 50% extra** ie., excess demand during normal/peak period X ruling demand charges X 0.5. Excess demand charges during off-peak period shall be applicable only if recorded maximum demand during off peak period is in **excess of 130%** of the contract demand.
- Procedure for ToD tariff shall be as given in Annexure-F

Billing of the demand charges:

- (a) Demand Charge for Normal time (6:00 hours to 18:00 hours) shall be:

$$\text{Billing Demand during normal time} \times \text{Ruling Demand Charge /kVA} \times 12/24$$

- (b) Demand Charge for Peak time (18:00 hours to 22:00 hours) shall be:

$$\text{Billing Demand during peak time} \times \text{Ruling Demand Charge /kVA} \times 1.25 \times 4/24$$

- (c) Demand Charge for Off-peak time (22:00 hours to 6:00 hours) shall be:

$$\text{Billing Demand during off-peak time} \times \text{Ruling Demand Charge /kVA} \times 0.80 \times 8/24$$

Total demand charges = (a) + (b) +(c)

Billing of Energy charges:

The billing of the energy charge shall be done as follows

- d) Normal time: *Consumption during normal time x ruling energy rate / unit.*
e) Peak time : *Consumption during peak time x ruling energy rate / unit x 1.25*
f) Off-peak time : *Consumption during off-peak time x ruling energy rate/unit x 0.8*
Total energy charge during a month = (d) + (e) + (f)

ANNEXURE- F

Billing Procedures for ToD tariff for LT -IV Industrial, HT consumers

Demand Charges (DC)

- (i) The recorded maximum demand during normal time zone (T1) from 06.00 hrs to 18.00 hrs = RMD1
- (ii) The recorded maximum demand during peak time (T2) from 18.00 hrs to 22.00 hrs = RMD2
- (iii) The recorded maximum demand during off- peak time (T3) from 22.00 hrs to 06.00 hrs = RMD3
- (iv) The Contract Demand (kVA) = CD
- (v) The Ruling Demand Charge (Rs/kVA) = D

(vi) Billing Demand

- (a) in Time Zone (T1), BMD1 = RMD1 or 75% of the CD whichever is higher.
- (b) in Time Zone (T2), BMD2 = RMD2
- (c) in Time Zone (T3), BMD3 = RMD3 or 75% of the CD whichever is higher.

(vii) (I) In the case of LT IV Industrial, Demand Charge in each time zone shall be

- (a) in Time Zone (T1), $Dc1 = BMD1 \times D \times (12/24)$
- (b) in Time Zone (T2), $Dc2 = BMD2 \times D \times 1.25 \times (4/24)$
- (c) in Time Zone (T3), $Dc3 = BMD3 \times D \times 0.80 \times (8/24)$

(II) In the case of HT&EHT consumers, Demand Charge in each time zone shall be

- (a) in Time Zone (T1), $Dc1 = BMD1 \times D \times (12/24)$
- (b) in Time Zone (T2), $Dc2 = BMD2 \times D \times 1.50 \times (4/24)$
- (c) in Time Zone (T3), $Dc3 = BMD3 \times D \times 0.80 \times (8/24)$

(viii) Excess Demand in the case of LT-IV industrial ,HT consumers in each time zone shall be

- (a) in Time Zone (T1), $Ed1 = (RMD1-CD)$
- (b) in Time Zone (T2), $Ed2 = (RMD2-CD)$
- (c) in Time Zone (T3), $Ed3 = \{RMD3-(1.30 \times CD)\}$

ix. Total Excess Demand Charge (ED) = $Ed1 \times 0.5 \times D \times (12/24) + Ed2 \times 0.5 \times D \times (4/24) + Ed3 \times 0.5 \times D \times (8/24)$

x. Total Demand Charge (DC) = $Dc1 + Dc2 + Dc3 + ED$

2. Energy Charges (EC)

- (i) The energy consumption in Time Zone (T1) = X1
- (ii) The energy consumption in Time Zone (T2) = X2
- (iii) The energy consumption in Time Zone (T3) = X3
- (iv) The Ruling Energy Charge (Rs/unit) = E

(v) (I) In the case LT IV Industrial consumers, Energy Charges in each time zone shall be :

(a) in Time Zone (T1), $E_{c1} = X1 \times E$

(b) in Time Zone (T2), $E_{c2} = X2 \times E \times 1.25$

(c) in Time Zone (T3), $E_{c3} = X3 \times E \times 0.8$

(II) In the case HT consumers, Energy charge in each time zone shall be:

(a) in Time Zone (T1), $E_{c1} = X1 \times E$

(b) in Time Zone (T2), $E_{c2} = X2 \times E \times 1.40$

(c) in Time Zone (T3), $E_{c3} = X3 \times E \times 0.85$

(vi) Total Energy Charge (EC) = $E_{c1} + E_{c2} + E_{c3}$

Total Monthly Charges = DC + EC