

"SAVE ENERGY FOR THE BENEFIT OF SELF AND NATION"

HIMACHAL PRADESH STATE ELECTRICITY BOARD LTD

"A State Govt. Undertaking"

No: HPSEBL/CE (Comm.)/EA-Genl./2009-10 - 13865-82

Dated:- 16-11-11

To

The Chief Engineers (OP),
North/South/Central Zone, HPSEB Ltd,
Dharamshala/Shimla/Mandi

Subject: - Energy Audit of Feeders/DTRs- comprehensive instructions thereof.

Reference: - This office letters of even file No. 13657-73 dated 11/11/2009 & 2381-98 dated 05/05/2010.

Sir,

As you are well aware that in MYT Tariff Order for FY09 to FY11; vide Direction No. 11.8, it had been directed by the Hon'ble HPERC to the HPSEB Ltd that necessary steps be taken to carry out the energy audit in an effective manner. The areas/feeders involving high losses should be identified based on the energy audit and necessary action be taken to reduce losses of such areas/feeders.

HPSEB Ltd recognizing the importance had imparted instructions to the field units to conduct energy audit specifically the formats Annexure-I, II & III were prescribed. These did prepare the basic data required for knowing the loss account and to know the area of concern for initiating the corrective action and strategies to prepare roadmap for the reduction of losses.

There is lack of supervision while monitoring these losses. No effective steps have been initiated to reduce the losses at field level. All actions have been planned at corporate level indicating that the concept has not been fully accepted and understood by all field units. To make this universally acceptable, the idea needs to be approached to all the stakeholders right up to the lowest functionary in the delivery chain of power distribution.

The responsibility for accounting of each unit put in the system needs to be built in and placed at some shoulders. The energy accounting & auditing required to be monitored on regular basis in consonance to the billing cycle and the officers/officials need to be made responsible & accountable. The directions were issued vide CE (Comm.) letter dated 05/05/2010, wherein the responsibility was placed at the level of JE/AE/XEN.

But this did not give the desired results as we could neither conduct an effective energy accounting nor audit. The close monitoring was not effective on real time basis and following inherent shortcomings were there:

- There are a number of dead-stop-defective meters on some feeders, DTRs & at consumer's premises which require immediate replacement for proper accounting of the units pumped in to the system.
- The areas were not ring fenced for creating the area of responsibility on certain inter linking feeders due to which it is not possible to work out the exact loss in the pocket of feeders serving multiple sections.
- Billing cycles on the same feeder were not streamlined and at times these were not even adhered.
- The feeder meter reading and DTR meter readings were not in line to the billing of the area.

Not satisfied with the achievement Hon'ble Commission again has passed following direction (Direction No. 9.17 in MYT order FY2012 to FY14) for conducting effective energy audit:

"The Commission has repeatedly advised the HPSEBL to carry out the energy audit in more effective manner. Even though the HPSEBL has submitted the feeder-wise HT & LT losses for FY09 & FY10, it has not spelt out the remedial steps taken by it for each respective feeders from which losses are considered to be on higher side. The activity is thus restricted to Energy accounting rather than energy audit. The Commission observes that the losses on some feeders continue to be on higher side and there is a considerable scope for reduction of losses. The Commission accordingly again directs the licensee to take steps to carry out energy audit in more effective manner and take remedial steps wherever required in a time bound manner".

In view of above, in order to take steps towards close monitoring, effective energy auditing and making each field official accountable for increasing the reliability as well as reduction of losses in the system; the accountability/responsibility of the concerned officials/officers is hereby fixed in following manner with immediate effect:-

1. Each Section shall be ring fenced in phased manner and JE/AE will act as Feeder Manager. It shall be the responsibility of JE in charge of the Section to get the monthly reading of the incomer meter of his Section. Till the time ring fencing is not achieved, the compilation of energy on the feeder shall be got complied by the AE concerned of the Sub-Division after getting all the activity coordinated amongs all the JEs. All Inter Division and Sub-Division points of import or export of energy shall be provided with metering equipment for ascertaining the energy input in the first instance.
2. The responsibility of fixing the billing schedule in the Sub-Division shall rest with AE concerned. He shall ensure that each consumer is properly accounted in the correct billing group of the DTR which is feeding the area. The billing cycle of the feeder shall be so prepared that the whole of the feeder covering all DTRs and all consumers are read during the same billing cycle in the month.
3. The Foreman or the Lineman of the beat shall assist JE in charge to get the reading of the DTR meter linking to the billing schedule notified by the Sub-Division, MLC too shall notify the beat in charge of his schedule of billing in the beat so that DTR reading are as close as possible to the billing period for having true energy audit till the time the area is covered under Automatic Meter Reading system.

The distribution/supply code mandates that as far as possible the same schedule shall be followed for reading meters in the area, so as to bring uniformity in billing cycle.

In case of common feeder feeding more than one Sub-Division, concerned AE/AEE feeding the other unit shall act as Feeder Manager and will co-ordinate with his counterpart to work out the energy accounting whether working in the same Division or in another Division.

The billing data are required to be verified by the officials/officers of appropriate level and followings are the limits of taking meter reading by them:

JE/AAEs	20 to 50 KW
AE/ AEEs/ XENs	51 to 500 KW
Sr. XENs	Above 500 KW

Compliance reports for the same shall be sent to the next higher authority every quarter.

4. AT&C/Distribution losses of each Section, feeder wise shall be prepared as per billing cycle basis by the Sub-Division. Each MLC in charge of ledger on the completion of billing cycle shall put the assessment and realization both of energy (units) and revenue to UDC (Revenue) who after compiling shall place before AE. The report shall bring out the comparison with the previous billing cycles. The exception report of the variation beyond 3% shall be followed with the extensive checking for bringing out tangible reasons for such variation. Similarly, Distribution/AT&C losses of the Sub-Division shall be compiled for the billing cycle by UDC (Revenue) and placed before AE.
5. AE/AEE after each billing cycle shall ensure random verification of meter readings to confirm whether correct billing is being done or not. If there is average/less billing by MLC or billing franchisee even if meter is in working order; disciplinary action be taken against them immediately.
6. The checking of following number of minimum connections in a year by the AEs/ AEEs/ XENs in charge of the Sub-Division has already been made obligatory by the Board (as per Sales Manual Instruction No. 211):

	Large supply with connected load	Medium supply with C.L		Small power Agriculture W.I.P. with C.L.	Bulk Supply Connections	Genl. Consumers
		Above 500 KW	101 to 500 KW			
XENs	50%	25%	10%	10%	50%	1%
AE/AEEs	100%	50%	25%	25%	100%	5%

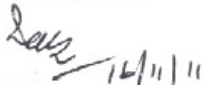
Compliance reports for the same shall be sent to the next higher authority every quarter.

7. Senior Assistant (Comm.)/ UDC (Revenue) or any other official assigned the duties shall be responsible for 100% checking of Consumer Accounts Ledger and preparation of Section-wise/Sub-Division-wise T&D/AT&C losses record, henceforth.
8. The consumer meters (20 KW & above) shall be read through Meter Reading Instrument and the necessary infrastructure for the same shall be provided to each Sub-Division like CMRI, base computer software and desk top.
9. The billing data of the consumers (20 KW & above) shall be maintained by the authority responsible for the meter reading on the prescribed formats and shall be compiled & continuously up to date by each Sub-Division. M&T team shall ensure the testing of the metering equipment as per the instructions already issued by this office.
10. All (OP) Circles shall continue to furnish the feeder wise energy audit return to this office as per the prescribed formats (Annexures-I, II & III) supplied vide this office letter dated 11/11/2009 in soft copy or through e-mail at the e-mail ID energyaudit.hpseb@gmail.com along with the details/brief description of initiatives taken for the system improvement over the period till further directions.

These instructions shall supersede all the earlier directions regarding energy audit issued by the HPSEB Ltd.

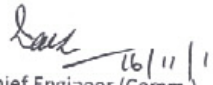
DA: - As above

Yours faithfully,


16/11/11
Chief Engineer (Comm.)
HPSEBL, Vidyut Bhawan,
Shimla-4

Copy forwarded to:-

1. The Chief Engineer (MM), HPSEB Ltd, Vidyut Bhawan, Shimla-4. It is again requested that electronic energy meters may be procured as per the requirements of field offices for the replacement of all the defective meters at feeder's input/DTRs /consumer's premises please.
2. All the S.Es (OP) Circles in HPSEB Ltd for information and necessary action please.
3. The Superintending Engineer (M&T)/ (Protection) Circle, HPSEB Ltd, Bilaspur/Hamirpur for information and necessary action please.


16/11/11
Chief Engineer (Comm.)
HPSEBL, Vidyut Bhawan,
Shimla-4

