

NOTIFICATION

The 29th January, 2016

No. 49/43/2015-4IB1 in pursuance to the provision under Chapter 12 of Enterprises Promotion Policy-2015 notified vide No. 49/43/2015-4IB1 dated 14th August, 2015, the Governor of Haryana is pleased to notify the “Energy Audit Scheme” for Micro, Small & Medium Enterprises. The scheme will consist of the following provisions:

1. Objective

The objective of the scheme is to identify areas where excess energy consumption or wastage of energy is taking place. It involves measuring the actual energy consumption of various electrical gadgets used in the premises, comparing it with an estimate of the minimum energy required to undertake the process and establishing technically and economically feasible means to achieve the same & suggest best ways to optimize the energy consumption leading to energy saving and cutting down electricity bills.

2. Quantum of Assistance

75% reimbursement of cost of energy audit subject to a maximum of Rs. 2 lakh and 50% subsidy on cost of capital equipments required for undertaking measures to conserve energy, subject to maximum of Rs. 20 lakh shall be provided to an eligible Micro, Small & Medium Enterprise.

3. Commencement and Applicability

The Scheme shall commence with effect from 15.08.2015 and shall remain in operation for a period of 5 years. MSMEs which have undertaken energy audit and purchased equipments after 14.08.2015 and before 14.08.2020 shall be eligible under this scheme.

4. Eligibility Criteria

All MSMEs existing anywhere in the state, which have filed EM Part-II with respective District Industries Centre shall be eligible under the scheme. Such enterprises shall be provided financial assistance only if the energy audit has been done by an Energy Auditor certified by the Bureau of Energy Efficiency (BEE). The detailed scope of energy audit is mentioned at

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Annexure-I. The eligible units must also comply with the following conditions:

- i) The item of manufacture should not fall in the restrictive list as notified by the State Government from time to time.
- ii) The assistance on cost of capital equipments will be provided only if, there has been at least 15% reduction in average monthly electricity consumption compared with average of previous 12 months before conducting of audit.
- iii) Even after taking all steps as mentioned above for efficient use of energy, if actual electricity consumption is increasing due to increase in production then such claim will be examined separately by a committee to be constituted by the Director of Industries & Commerce.
- iv) Investments in new plant, machinery and equipments focussed towards enhancing energy efficiency shall only be eligible for subsidy under this scheme.
- v) The unit should have obtained NOC/CLU from competent authority, if applicable.
- vi) The unit should be in commercial production.
- vii) The unit should be in regular production at the time of disbursement.
The assistance shall not be released to a closed unit.

5. Procedure

- a. Application on prescribed Form (Annexure-II) for the reimbursement of expenses incurred in conducting energy audit & purchase of capital equipments along with listed documents would be submitted to the Director of Industries & Commerce, on the web portal of the department within three months from the date of completion of energy audit/purchase of capital equipments.
- b. The application would be processed and examined. The deficiencies, if any, would be communicated to the applicant in writing within a period of 10 working days and the applicant would be given a time period of eight weeks to rectify the deficiencies so pointed out.
- c. In case the deficiencies are not removed within the prescribed period, the claim will be filed by the Competent Authority, under intimation to the applicant through an e-mail. The enterprise shall not be required to submit any additional document other than specified under Annexure-I without approval of competent authority.

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d. A claim application so filed may be reopened with the orders of Principal Secretary Industries & Commerce provided request for the same is received within a period of 30 days from the date of rejection of the claim by the designated Competent Authority.

6. Time Limit

An enterprise shall forfeit its entitlement for the reimbursement of the expenses incurred in conducting the energy audit, if it does not submit its claim, complete in all respects within three months from the date of completion of energy audit/purchase of capital equipments.

7. Competent Authority for sanction:

The Director Industries & Commerce shall be competent authority for sanction of assistance for medium enterprises and Additional Director Industries shall be competent for sanction in respect of Micro & Small Enterprises within 30 days from the date of completion of the claim.

8. Interpretation/ Relaxation

Secretary Industries & Commerce, Haryana shall be competent to make interpretation/relaxation of any provision of this scheme.

9. Appeal

An appeal against an order passed by the Competent Authority shall lie with the Principal Secretary, Industries & Commerce, Haryana within a period of 30 days from the date of communication of order appealed against. The order passed by the Principal Secretary in appeal shall be final.

10. Penal Action

At any time if it is found that assistance from government has been availed on the basis of any false information, the applicant shall besides refunding assistance with compound rate of interest @ 12% per annum and facing legal action, will be debarred from grant of any incentives/assistance from the State Government.

Devender Singh
Principal Secretary to Government of Haryana,
Industries and Commerce Department

Scope of Detailed Energy Audit

Study Overview

Our Area Of Detail Energy Audit Covers Following Areas:

1. Study of Electricity Bills, Contract Demand & Power Factor & Loading Pattern.
2. Power Distribution Study
3. Electrical Systems Study
4. Power Quality Analysis
5. Diesel Gen Set Audit or any other Generator Audit.
6. Motor Management
7. Air Conditioning Study
8. Thermal Study: Boilers/Furnaces/Incinerators.
9. Compressor Study
10. Pump systems
11. Study Of Lighting System
12. Thermo graph study.
13. Techno Economic Study of Power & Fuel with distribution drawings
14. Projects for Implementing the Energy Saving Measures

Study of lighting system:

- Performance test of system installed
- Calculating recommended luminance level for various tasks
- Calculation of installed lighting load efficacy and installed load efficacy ratio
- ILER Assessment
- Finding areas for improvement
- Light control: Recommendation & design for grouping of lighting system, installation of occupancy sensors, installation of PLC based time based lighting control sensors, installation for exclusive transformer for lighting
- Selection of luminaries for efficiency and colors rendering index

Electrical energy audit:

- Power factor improvement,
- Max. Demand analysis, solution for avoiding penalties,
- Most economical voltage level study,
- Capacitor performance,
- Calculation of specific power consumption (units/kg),
- Adaptation of new Energy conservation technology etc.
- Calculation of electricity cost on various machines
- Bifurcations of power consumption spend on productive machines and utilities and their comparison with the standards

Power Quality Audit (Harmonic Analysis):

Detailed harmonic analysis, quantifying losses occurring due to high level of harmonics prevailing in the system, ways and means to mitigate the same to improve power factor in presence of harmonic polluted environment.

D.G. Audit:

Calculation of specific fuel consumption (units/liters) on existing and different load condition, load optimization on D.G. and suggest the scope of fuel saving, D.G. efficiency trials, load bearing capacity of D.G. set, checking of general maintenance and suggest measures to achieve better fuel efficiency, power factor suggestions, techno-economic study of new D.G., solution for problems etc.

Automation & Modification:

Detail analysis of system, product up gradation by value engineering, study and need of drives, sensors & PLC etc. analysis of feedback control in compressor D.G, humidification towers etc, development of on line monitoring & control system, need base implementation of **SCADA** (supervisory control and data acquisition system)

Motor Management:

Motor's addressing and coding, general checks for installation safety and starting, check for the level of heating etc, general procedure for overhaul of motors, critical checkpoints of motor after rewinding ,motor's performance evaluation incorporating percentage loading, formulation of maintenance schedule.

Compressor Study:

- Evaluating Efficiency-EPI
- Air Leakage losses
- Evaluating actual CFM/KW generation
- Designing system for energy saving on compressor as per requirement

Air Conditioning Study:

- Evaluating tonnage & system efficiency
- Determining CFM/KW for each supply fan
- Determining Fan efficiency
- Determining Pump efficiency
- Evaluating insulation of ducts
- Determining plant heat load requirement
- Evaluating CFM required to match plant's heat load
- Determining actual CFM flow on shop floor inside plant
- Ways & means for conservation of energy

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Thermal audit:

Boiler efficiency evaluation & measures of improvement, efficient steam distribution & utilization, waste heat recovery system, optimization of steam pressure for generation distribution and utilization, insulation/radiation loss calculation, steam pipe line study, pressure optimization for fuel saving, flue gas analysis, use of alternate energy resources, water quality analysis, adaptation of new technology, process optimization for fuel saving etc. (saving can be achieved in the terms of 10-20%).

The following Meters shall be used during audit as per requirement

S. No.	Type of Instrument
1	Three Phase Power Analyzer
2	CT (AC)- 1000/5 Amps.- 3 Nos.
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2	CT (AC)- 1000/5 Amps.- 3 Nos.
3	CT (DC)- 1000/5 Amps.- 3 Nos.
4	CT (AC)- 6000/5 Amps.- 3 Nos.
5	Portable flue Gas Analyzer
6	Hand Held Techo- Meter
7	Lux-Meter
8	Digital Clamp Meter
9	Digital Power Meter
10	Digital Infra Red Thermo Meter
11	Digital Temperature and Humidity meter
12	Pitot Tube anaemometer
13	Manometer
14	Digital Ultrasonic transit flow meter
15	Bomb Calori Meter
16	Digital Infra Red scanner
17	Thermal imager

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Annexure-II

Application Form for Detailed Energy Audit

S.No	Description	
1.	Name of the Applicant (Authorised person of the unit)	
2.	Name & factory address of the unit with telephone no. and e-mail	
3.	Registered Office address	
4.	Category of unit (Micro/ Small/ Medium)	
5.	EM Part-II/Udyog Aadhar No. & Date	
6.	Date of commencement of commercial production (As per first sale bill)	
7.	Item of manufacture	
8.	Constitution of the Unit [Proprietary, Partnership, Pvt. Ltd., Public Ltd., LLP (Limited Liability Partnership)]	
9.	Sector/ type of Industry	
10.	No. of Employees	
11.	Name of the Energy Audit agency	
12.	Total amount & details of expenditure incurred for conducting Energy Audit	
13.	Total Reimbursement claimed against Energy Audit	
14.	Details of investment made	
15.	Details of All Energy using processes and equipment including Cooling Tower etc.	
16.	Amount of Electricity Bills of last 12 Months	
17.	Capacity of Transformers	
18.	Contract Demand and Connected load	
19.	Cost & Details of Power Factor control Equipment installed	
20.	Cost & Details of DG sets installed with capacity 1. 2. 3.	
21.	Cost & Details Thermal Equipment installed (Like Boiler, Furnace etc.)	
22.	Cost & Details of compressed Air Equipment installed	
23.	Cost & Details of Welding machines installed	

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24.	Cost & Details of Pneumatic Air Tools installed	
25.	Cost & Details of any other energy consuming equipment installed	
26.	Total cost of the equipments installed for energy saving (in Rs.)	
27.	Amount of subsidy claimed @50% of the total cost of energy saving equipments	
28.	Amount of assistance obtained from Government of India, if any	

29. Self attested copies of documents to be attached with the application:

1. Acknowledgement of Entrepreneur Memorandum (EM) part-II.
2. Certificate of Incorporation/ Partnership deed.
3. Board resolution/ Power of attorney
4. Change of Land Use (CLU)/ NOC from competent authority, if applicable.
5. Copy of first sale bill.
6. Copy of Energy audit certification.
7. CA certificate of Expenditure (in original) giving the details (as per prescribed format)
8. Copy of the bills raised by certifying agency and proof of payment thereof.
9. Audited balance sheet of the unit of last year.

Signature of the applicant
(with seal)

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Annexure-III

Undertaking/Declaration (to be submitted on non-judicial stamp paper of Rs. 50/- (Min) duly sworn before a Notary Public (duly affixed with Notarial Stamp; and with Notary Seal & Notary Registration Number) or First Class Magistrate):

I, _____ do hereby solemnly state that I am proprietor/
partner/ director/ _____ of M/s _____
located _____ which is engaged in the manufacture
of _____ and I have been authorized to file the claim of Energy
Audit & subsidy on purchase of capital equipment for energy
conservation with the Department of Industries and Commerce,
Haryana.

2. I do hereby affirm that the particulars given in the application
are correct. In case any of the statement/ information furnished in the
application/ documents later found to be wrong or incorrect or
misleading, I do hereby undertake to refund the entire amount of
assistance of Rs. _____ (Rupee _____)
granted to me at the compound rate of interest @12% per annum,
besides facing legal action in case facts contained in this application
are proved to be wrong at the time of verification/ checking or
otherwise at any stage.

Dated:

Signature of the Proprietor/Partner/
Managing Director/Director
(with seal)

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Annexure-IV

Certificate from Chartered Accountant in respect of Proof of Expenditure incurred for conducting energy audit and about investment in plant & machinery (on a CA letter head)

To whom it may concern

The document & records of M/s with their regd. office at and factory located at and EM no..... dated) in respect of the expenditure incurred in conducting energy audit have been verified, and it is certified that the said company have incurred a total expenditure of Rs. (Rupees) towards, Application fee, assessment/ audit fee, annual fee/ licence fee, training, calibration and technical consultancy etc. (excluding hotel & travel expenses & surveillance charges) in conducting energy audit from the certification agency namely..... as per the following details of payments.

Details of payments (Name of certification agency/ org.) amount paid (in rupees)

- a) Application fee paid to
- b) Assessment/audit fee paid to
- c) Annual fee/ licence fee paid to
- d) Calibration charges paid to
- e) Technical consultancy charges paid to
- f) Training expenses paid to
- Total

AND

Verified from the books of accounts & records of above firm that the cost of capital equipments installed for energy conservation is Rs.....

AND

Verified from the books of accounts of above firm that the total investment in plant and machinery (original purchase value) of the unit as on date..... stands as Rs..... (Rupees)

Name & signature of the Chartered Accountant
with stamps & CA membership number

Dated

Payment at (a) to (f) above should be supported by copies of receipts of payments made to the certification agency duly attested. The payment receipts must indicate the purpose for which the payments have been made to the certification agency.