

ENERGY CONSERVATION (FORM AND MANNER AND TIME FOR FURNISHING
INFORMATION WITH REGARD TO ENERGY CONSUMED AND ACTION TAKEN



12 THE GAZETTE OF INDIA : EXTRAORDINARY MINISTRY OF POWER NOTIFICATION New Delhi, the 26th June, 2008 [PART G.SR 486(E).— In exercise of the powers conferred by clause (h) of sub-section (2) of section 56 read with clause (k) of section 14 of the Energy Conservation Act 2001 (52 of 2001 the Central Government hereby makes the following rules, namely: Short title and commencement.

— (1) These rules may be called the Energy Conservation (Form and Manner and Time for Furnishing Information With Regard to Energy Consumed and Action Taken on Recommendations of Accredited Energy Auditor) Rules, 2008. (2) They shall come into force on the date of their publication in the Official Gazette.

2. 3 Definitions. - (1) In these rules unless the context otherwise requires, — a) "Act" means the Energy Conservation Act, 2001 ; b) "Form" means the forms specified under rule 3; c) "year" means the financial year beginning on the 1st day of April and ending on the 31 March following; d) words and used herein and not defined, but defined in the Act shall have the meanings assigned to them in the Act Form and time limit for furnishing of information by the designated consumers with regard to energy consumed

and action taken on the recommendations of the accredited energy auditor— (1) Every designated consumer within three months of the submission of energy audit report by the accredited energy auditor shall, furnish in electronic form as well as in a hard copy, to the designated agency, the details of information on energy consumed during the year preceding to the year for which energy audit was undertaken as verified by the accredited energy auditor. in



Form 1 (h) details of specific energy consumption product- wise for the period referred to in clause Form 1 i. 13 (c) details of the action taken on the recommendations made by the accredited energy auditor in the energy audit report submitted under the Act, in Form 2; (2) Every designated consumer shall furnish to the designated agency every year, the details of progress made in consequence of the action taken by it as per clause (c) of sub-rule (1) of rule 3 together with the details of energy efficiency improvement measures implemented and consequent savings achieved in Form 3, within three months of the close of that year, Manner of furnishing information.— (1) Every designated consumer shall 4. furnish the information under Rule 3 after getting the same authenticated by its energy manager appointed or designated in terms of notification number S 0.318(E), dated the 2nd March, 2007. (2) The information under sub-rule (1) shall be strictly in accordance with the energy audit report of the accredited energy auditor. [F. No. 10/15/07-EC] DEVENDER SINGH, Jt secy. 14 1 2 (b) 4 5 6 Year 200 7.0 7.1 (ij) (iii) (iv) (v) (8) (a) (iii) (iv) (v) (vi) GAZETTE OF INDIA : EXTRAORDINARY Form 1 Details of energy consumed and specific energy consumption, product-wise, based on verified data [See rule Name of the Unit The sector in which unit falls (Refer Annexure-I) Complete address of Unit's location (including Chief Executive's name and designation) with mobile. telephone, fax nos. and e-mail Year of establishment Registered office address with telephone, fax numbers and e-mail Name, designation, address, mobile, telephone, fax numbers and e-mail of energy manager Production and capacity utilisation details Main products Product 1 Product 2 Other products Installed Units Actual production (b) % Capacity utilisation (b/a) x 100 Specific energy consumption (Please specify) capacity (a) Year 200 - 200 Energy consumption and cost Electricity consumption and cost Purchased electricity Units (Millions kWh/year) Total cost (Rs. Millions/year) Plant connected load (k" Contract demand (kVA) with utility Connected load (k" Own Generation Through Diesel Generating sets Annual generation (Millions kWh/ year) Total cost (Rs Million/ year) Fuel used (HSD/LDO/LSHS/LSFO -(Refer annexure 2) Gross calorific value (kCal/kg) Annual fuel consumption (tonne) Total annual fuel cost (Rs Million) 15 3(i)] Year 200 - 200 (b) (ii) (c) (iii) (iv) (v) (C) (D) (E) 7.2 (iii) (iv) (v) (vi) (B) (ii i) (v) (vi) Through steam turbine/ generator Annual generation (Millions kWh/ year) Fuel used state which type of fuel was used (C=coal, B=biomass, E=electricity). If coal was used, state which grade i.e., C/I=imported or C/F=Coal of grade F Through gas turbine Annual generation (Millions kWh/ year) Fuel used (state which type of fuel was used Natural Gas (NG), Piped Natural Gas (PNG), Compressed Natural Gas (CNG), Naphtha) Gross calorific value (kCal/SCM) Annual fuel consumption (SCM) Total annual fuel cost (Rs. Million) Total generation of electricity (Millions kWh/ year) 7.1 (B) Electricity supplied to the grid/ others (specify (Millions kWh/ year) Total Electricity consumed (Millions kWh/year) 7.1 (A(i) +C-D] Fuel consumption and % cost for process heating coal Gross calorific value (kCalVkg) Quantity purchased (tonne/ year) Quantity used for power generation (tonne/year) Quantity used as raw material, if any (tonne/year) Quantity used for process heating (tonne/year) Total coal cost for process (Rs. Million/year) Lignite Gross calorific value (kCalVkg) Quantity purchased (tonne/year) Quantity used for power generation (tonnes/year) Quantity used as raw material, if any (tonne/year) Quantity used for process heating (tonne/year) Total lignite cost for process (Rs Million/year) (b) (c) (iii) (iv) (v) (D) (E) 7.2 (A) (iii) (v) (vi) (B) (iii) (iv) (v) (vi) 11--a" g 3(i)] Through steam turbine/ generator Annual generation (Millions kWh/ year) Fuel used state which type of fuel was used (C=coal, B=biomass, E=electricity). If coal was used, state which grade i.e., C/I=imported or C/F=Coal of grade F Through gas turbine Annual generation (Millions kWh/ year) Fuel used (state which type of fuel was used Natural Gas (NG), Piped Natural Gas (PNG); Compressed Natural Gas (CNG), Naphtha) Gross calorific value (kCal/SCM) Annual fuel consumption (SCM) Total annual fuel cost (Rs. 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Million/year) 15 Year 200 - 200 17 Year 200 - 200 (D) (a) (iii) (iv) (v) (Yi) (b) (iii) (iv) (v) (vi) 7.4 (A) (iii) (iv) (v) (vi) (B) (iii) (iv) (v) (vi) Diesel Oil High Speed Diesel (HSD) Gross calorific value (kCal/kg) Quantity purchased (klJ/year) Quantity used for power

generation (tonne/year) Quantity used as raw material, if any (kU/year) Quantity used for process heating (kW/year) Total HSD cost for process heating (Rs. Million/year) Light Diesel Oil (I-DO) Gross calorific value (kCal/kg) Quantity purchased (kU/year) Quantity used for power generation (kU/year) Quantity used as raw material, if any (kU/year) Quantity used for process heating (kL/year) Total LDO cost for process heating (Rs. Million/year) Gas Compressed Natural Gas (CNG) Gross calorific value (kCal/SCM) Quantity purchased (million SCM/year) Quantity used for power generation (million SCW/year) Quantity used as raw material, if any (million SCM/year) Quantity used for process heating (million SCM/year) Total cost of natural gas for process heating (Rs. Million/year) Liquefied Petroleum Gas (LPG) Gross calorific value (kCal/SCM) Quantity purchased (million SCM/year) Quantity used for power generation (million SCW/year) Quantity used as raw material, if any (million SCM/year) Quantity used for process heating (million SCM/year) Total cost of LPG for process heating (Rs. Million/year) 18 (i) (ii) 7.5 (iii) 7.6 (A) (iii) (iv) 7.7 (ii) (iii) (v) THE GAZETTE OF INDIA Gas generated as by product/ waste in the plant and used as fuel Name Gross calorific value (kCal/SCM) Quantity used for process heating (million SCW/year) Total cost of byproduct gas for process heating (Rs. Million/year) Solid waste Solid waste generated in the plant and used as fuel Name Gross calorific value (kCal/kg) Quantity used for process heating (tonne/year) Total cost of solid waste for process heating (Rs. Million/year) Liquid waste Liquid effluent/ waste generated in the plant and used as fuel Name Gross calorific value (kCal/kg) Quantity used for process heating (tonne/year) Total cost of liquid effluent for process heating (Rs. Million/year) Others Name Average gross calorific value (kCal/t-n) Quantity used for power generation (tonnes/year) Quantity used for process heat (tonnes/year) Annual cost of the others source IPART II—SEC. 200 Year 200 - Signature Signature Name of the energy manager, Name of the company Full address Seal Name of the accredited energy auditor Accreditation details Seal 2 19 Annexure 1 - Name of sectors Aluminium, cement, chemicals, chlor-alkali, fertilizers, gas crackers, iron and steel, naphtha crackers, pulp and paper, petrochemicals, petroleum refineries Sugars textile. Annexure 2 HSD LDO LSHS LSFO C E CNG LPG SCM Million High Speed Diesel Light Diesel Oil Low Sulphur Heavy Stock Low Sulphur Furnace Oil Coal Biomass Electricity Coal Imported Indian Coal grade F Natural Gas Piped Natural Gas Compressed Natural Gas Furnace Oil Liquefied Petroleum Gas Standard Cubic Metre (150C and 101325 bar) Kilo Litre Ten (10) takh 2475 4 Form 2 Details of action taken on recommendations of accredited energy auditor for improving energy efficiency [See rule No 13 5 6 7 8. 9 10 Energy efficiency improvement measures — (Suggested categories of areas of energy efficiency improvement for obtaining details of energy savings — See Annexure 3) Investment Millions Rupees Reasons for not implementing the measure Date of completion of measure/ likely completion Life cycle years Oil Signature Annual energy savings Gas Coal Electricity Other o Signature Name of the energy manager Name of the company Full address Contact person Email address Telephone/ Fax numbers Plant address Name of the accredited energy auditor Accreditation details Seal 2 Estimate the predicted life of the measure, meaning the number of years the level of first year energy savings or even larger amounts will materialise. Life commercial units of litre, kg, tonnes, normal cubic meter, kWh or MWh and indicate the unit. indicate the anticipated potential in energy savings. 1 2 3 4 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26 27 21 Annexure 3 Suggested categories of areas of energy efficiency improvement for obtaining details of energy savings Better house keeping measures Installation of improved process monitoring and control instrumentation, or software Fuel Handling System Steam Generation System Steam Distribution System Electricity Generation System Hot Water System Compressed Air System Raw/ Process Water System Cooling Water System Process Cooling/ Refrigeration System Heating, Ventilation and Air Conditioning System Electrical System Lighting System Melting/ Heating/ Drying Equipment (e.g. Furnaces, Heaters, Kilns, Ovens, Dryers, Evaporators, etc. Heat Exchangers Pumps, Compressors, Fans, Blowers, Piping, Drying Process Equipment (e.g.) Reactors, Separation Equipment, Material, Handling Equipment, etc.) Transformers Electric Motors and Drives Process Technology Process Integration Process Control and Automation Other Non-equipment Measures (e.g. Plant Operation/ Scheduling, Tariff Schedule, etc.) Recovery of waste heat for process heat or power generation Retrofitting, modification or sizing of fans, blowers, pumps, including duct systems Other Form 3 [See rule Details of energy efficiency improvement measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations. A. Sl No. 1 2 3 B. Sl No Implemented: Description of energy efficiency improvement measure Under implementation Description of energy efficiency improvement

measure Category Category Investment (Rupees) Investment (Rupees) estimated Verified 41 savings
(Rupees) Verified savings (Rupees) estimated Verified savings Verified energy savings estimated G = 109
Units Units Signature Fuel Fuel Remarks Status of implementation -s 2 3 Signature Name of the energy
manager Name of the company Full address Contact person Email address Telephone/ Fax numbers Plant
address Use "C. No" column of form 2 as reference — See Annexure "3" for adoption First year use
conventional energy, volume or mass units with proper prefix k = 103 M = Name of the accredited energy
auditor Accreditation details Seal 1 06,

