

## ANNEXURE 2 TO DIRECTORS' REPORT

AS PER RULE 2 OF COMPANIES (DISCLOSURE OF PARTICULARS IN THE REPORT OF THE BOARD OF DIRECTORS) RULES, 1988.

### A. CONSERVATION OF ENERGY:

During the year under review, the Company has taken various energy conservation measures including

1. Installation of VFD for raw juice pumps.
2. Slat conveyor was replaced by belt conveyor
3. Bagasse elevator length was reduced.
4. Plate heat exchanger was installed at cogen plant to raise the temperature of ACC condensate by using excess condensate generated at sugar plant.
5. Waste heat recovery system was implemented.

The above measures have resulted in reduction in steam consumption and power consumption.

The total energy consumption and energy consumption per unit of production is given in Form A

### Form A

Form for Disclosure of Particulars with respect to Conservation of Energy

#### A. Power and Fuel Consumption

|   | Units        | Sugar Division           | Distillery Division | Co-gen. Division |
|---|--------------|--------------------------|---------------------|------------------|
| 1. Electricity                          |              |                          |                     |                  |
| a. Purchased                            | KWH          | 18,99,610<br>(32,26,360) | 50,990<br>(64,165)  | 4,510<br>(3,588) |
| Total amount                            | Rs. in lakhs | 201.85<br>(283.1)        | 5.08<br>(5.8)       | 0.45<br>(0.3)    |
| Rate per unit (including demand charge) | Rs.          | 10.63<br>(8.78)          | 9.95<br>(8.99)      | 9.95<br>(8.99)   |

|  |                  |  |                          |                            |
|--|------------------|--|--------------------------|----------------------------|
| b. Own Generation<br>i) Through Diesel<br>Gensets<br>Qty. Produced | KWH              | 36,124<br>(1,03,967)   | NIL<br>(NIL)             | NIL<br>(NIL)               |
| Units per ltr of<br>Diesel   |                  | 1.75<br>(2.58)   | NIL<br>(NIL)             | NIL<br>(NIL)               |
| Cost per unit  | Rs.              | 20.03<br>(12.00)   | NIL<br>(NIL)             | NIL<br>(NIL)               |
| ii) Through steam<br>turbine(Co-<br>generation)<br>Qty. consumed   | KWH              | 5,24,58,989<br>(3,57,92,773)   | 18,75,440<br>(12,18,265) | 1,98,96,742<br>(60,84,354) |
| Units per MT of<br>Steam   |                  | 148<br>(137)   | 123<br>(123)             | 166<br>(147)               |
| Cost/unit  | Rs.              | Steam produced from own bagasse<br>(Steam produced from own bagasse) |                          |                            |
| 2 Coal<br>Quantity   | MT               | NIL<br>(NIL)   | NIL<br>(NIL)             | NIL<br>(NIL)               |
| Total Cost   | Rs.in<br>lakhs   | NIL<br>(NIL)   | NIL<br>(NIL)             | Nil<br>(NIL)               |
| Average rate   | Rs.              | NIL<br>(NIL)   | NIL<br>(NIL)             | Nil<br>(NIL)               |
| 3 Furnace Oil<br>Quantity  | Ltrs             | NIL<br>(NIL)   | NIL<br>(NIL)             | NIL<br>(13000)             |
| Total value  | Rs in<br>lakhs   | NIL<br>(NIL)   | NIL<br>(NIL)             | NIL<br>(2.65)              |
| Average Rate   | Rs.              | NIL<br>(NIL)   | NIL<br>(NIL)             | NIL<br>(20.40)             |
| 4 Fire Wood<br>Quantity  | MT               | NIL<br>(NIL)   | NIL<br>(NIL)             | 4668<br>(18,825)           |
| Total value  | Rs in<br>lakhs   | NIL<br>(NIL)   | NIL<br>(NIL)             | 47.17<br>(230.9)           |
| Average Rate   | Rs.              | NIL<br>(NIL)   | NIL<br>(NIL)             | 1011<br>(1226)             |
| 4.Others/internal<br>generation<br>Bagasse<br>Quantity             | MT               | NIL<br>(NIL)   | NIL<br>(NIL)             | 5,66,619<br>(3,77,140)     |
| Total cost   | Rs.in<br>million | Own bagasse<br>(Own bagasse)   |                          |                            |
| Rate/unit  | Rs.              |  |                          |                            |

## B CONSUMPTION PER UNIT OF PRODUCTION

| Product           | Per Quintal<br>White Crystal Sugar | Per Litre<br>Alcohol |
|-------------------|------------------------------------|----------------------|
| Electricity (KWH) | 26.34<br>(26)                      | 0.19<br>(0.19)       |

## **B. TECHNOLOGY ABSORPTION:**

### **FORM B**

Form for disclosure of particulars with respect to absorption

#### **Research and development**

1. Specific areas in which R & D carried out by the Company.

a. Liquid formulation of bioproducts.

2. Benefits derived as a result of the above R & D

a. Increase in shelf life of the products.

b. Increase in efficacy of the products.

3. Expenditure on R & D

|   |                 |
|---|-----------------|
| (a) Capital   | Rs. 15,60,490/- |
| (b) Recurring   | Rs. 11,29,361/- |
| (c) Total   | Rs. 26,89,851/- |
| (d) Total R & D expenditure as a percentage<br>Of total turnover. | 0.1%            |

#### **Technology absorption, adaptation and innovation**

(1) Efforts in brief towards technology absorption, adaptation and innovation.

Pheromone lures are being produced for the effective control of top borer and stalk borer pests of sugarcane.

(2) Benefits derived as a result of the above R & D

Low cost eco friendly technology to prevent yield loss and quality of sugarcane.

## **C. FOREIGN EXCHANGE EARNINGS AND OUTGO:**

Total foreign exchange used and earned

foreign exchange earned : Rs. 28,18,78,835/-

foreign exchange outgo : Rs. 5,15,43,434/-