



SIR SHADI LAL ENTERPRISES LIMITED

BOARD OF DIRECTORS : Shri Onke Aggarwal-Chairman
Shri Rajat Lal-Managing Director
Shri Vivek Viswanathan-Joint Managing Director
Shri Hemantpat Singhania
Smt. Sudha Singhania
Shri R.L. Srivastava
Shri R.C. Sharma
Shri P.K. Viswanathan

COMPANY SECRETARY : Shri Sunit Malhotra

BANKERS : State Bank of India
Punjab National Bank

AUDITORS : Messrs. Basant Ram & Sons
Chartered Accountants
A-18, Nizamuddin East,
Murli Marg, New Delhi-110 013

REGISTERED OFFICE : 4-A, Hansalaya, 15, Barakhamba Road,
New Delhi-110 001

MANUFACTURING UNITS : Upper Doab Sugar Mills
Shamli, Distt. Muzaffarnagar (U.P.)

Unn Sugar Complex
Block Unn, Distt. Muzaffarnagar (U.P.)

Shamli Distillery & Chemical Works
Shamli, Distt. Muzaffarnagar (U.P.)



SIR SHADI LAL ENTERPRISES LIMITED

Regd. Office : 4-A, Hansalaya, 15, Barakhamba Road, New Delhi-110 001

NOTICE FOR THE 77th ANNUAL GENERAL MEETING

Notice is hereby given that the 77th Annual General Meeting of the Shareholders of Sir Shadi Lal Enterprises Limited will be held on Thursday, the 22nd September, 2011 at 11.30 a.m. at P.H.D. House, Opposite Asian Games Village, New Delhi - 110 016 to transact the following business:

ORDINARY BUSINESS:

1. To receive, consider and adopt the Audited Balance Sheet as at 31st March, 2011, Profit & Loss Account for the year ended on that date, and the Reports of the Directors and Auditors thereon.
2. To appoint a Director in place of Smt. Sudha Singhanian, who retires by rotation and being eligible, offers herself for re-appointment.
3. To appoint a Director in place of Shri Onke Aggarwal, who retires by rotation and being eligible, offers himself for re-appointment.
4. To appoint Auditors to hold the office from the conclusion of this meeting until the conclusion of the next Annual General Meeting and to fix their remuneration.

By order of the Board

Place : New Delhi
Dated : 16th July, 2011

Sunit Malhotra
Secretary

NOTES:

1. **A member entitled to attend and vote at the Annual General Meeting ("Meeting") is entitled to appoint a proxy to attend and vote instead of himself and the proxy need not be a member of the Company. Proxies in order to be effective must be received at the registered office of the company not less than 48 hours before the commencement of the Meeting.**
2. Corporate members intending to send their authorised representatives to attend the Meeting are requested to send to the Company a certified copy of the Board Resolution authorising their representative to attend and vote on their behalf at the Meeting.
3. In terms of Article 98 of the Articles of Association of the Company, read with section 256 of the Companies Act, 1956, Smt. Sudha Singhanian and Shri Onke Aggarwal, Directors, retire by rotation at the ensuing meeting and being eligible, offer themselves for re-appointment. The Board of Directors of the Company commends their respective re-appointment.
4. As per Clause 49 of the Listing Agreement with Stock Exchanges, the brief resume and functional expertise of directors proposed for re-appointment are annexed to this notice alongwith the details of the Companies in which they are Directors and the Board Committees of which they are members.
5. The Register of Members and Share Transfer Books of the Company will remain closed from 9th September, 2011 to 15th September, 2011 (both days inclusive).
6. Shareholders are requested to intimate to the Company/ Registrar and Transfer Agent, M/s Alankit Assignments Limited, change if any, in their registered addresses.
7. Members are informed that in case of joint holders attending the Meeting, only such joint holder who is higher in order of the names will be entitled to vote.
8. The Ministry of Corporate Affairs has taken a "Green Initiative in the Corporate Governance" by allowing paperless compliances by the companies and has issued circulars stating that service of notice/documents including Annual Report can be sent by e-mail to its members. To support this green initiative of the Government in full measure, members who have not registered their e-mail addresses, so far, are requested to register their e-mail addresses, in respect of electronic holdings with the Depository through their concerned Depository Participants. Members who hold shares in physical form are requested to register their e-mail addresses with the Company or with the Registrar i.e. M/s Alankit Assignments Limited.
9. Members who are holding shares in identical order of names in more than one folio are requested to write to the Company or to the Share Transfer Agent of the Company, M/s Alankit Assignments Limited, to enable it to consolidate their holdings in one folio.
10. Members are requested to bring their copies of the Report and Accounts to the meeting.
11. Members, who hold shares in dematerialised form, are requested to bring their depository account number (Client ID No.) for easier identification and recording of attendance at the meeting.
12. Members who require any information about the accounts to be explained in the meeting are requested to inform the Company about the intended query atleast seven days in advance of the meeting.
13. Pursuant to Section 205A of the Companies Act, 1956, all unpaid/unclaimed dividends declared for and up to the accounting period ended 31st March, 1995 have been transferred to the General Revenue Account of Central Government. Members, who have not yet encashed their dividend warrants for the said period, are requested to claim the amount from the Registrar of Companies, National Capital Territory of Delhi & Haryana, 4th Floor, IFCI Tower, 61, Nehru Place, New Delhi - 110 019.
14. Pursuant to Section 205A and 205C of the Companies Act, 1956, unpaid/unclaimed dividends for the year 1995-96, 1996-97, 1997-98, 1998-99, interim and final dividend of 1999-2000, 2000-2001 & 2001-2002 have been transferred by the Company to "Investor Education & Protection Fund" (IEPF) constituted by the Central Government under Section 205A and 205C of



the Companies Act, 1956. Further, under the amended provisions of Section 205B of the Companies Act, 1956, no claim shall lie for the unclaimed Dividend from IEPF by the shareholders.

15. Pursuant to the provisions of Section 205A (5) of the Companies Act, 1956, dividend for the financial year ended 31st March, 2004 and thereafter which remain unclaimed for a period of seven years will be transferred by the Company to the Investor Education and Protection Fund (IEPF) established by the Central Government pursuant to Section 205C of the Companies Act, 1956 as detailed below:

Financial Year	Date of Declaration of Dividend	Due date for the transfer to IEPF
2003-04	16.09.2004	22.10.2011
2004-05	27.09.2005	02.11.2012
2005-06	25.09.2006	31.10.2013
2009-10	24.09.2010	30.10.2017

Shareholders who have not so far encashed/claimed their dividend warrants for the financial year from 2003-2004 to 2005-2006 and 2009-2010 are requested to approach the Company for re-validation of dividend warrants or for obtaining duplicate dividend warrants. Shareholders are requested to note that no claim shall lie against the company or the said fund in respect of any amounts, which were, unclaimed and unpaid for a period of seven years from the date they first became due for payment and no payment shall be made in respect of any such claim.

16. Section 109A of the Companies Act, 1956, has extended nomination facility to individuals holding shares in Companies. Shareholders, in particular, those holding shares in single name, are requested to avail of the above facility by furnishing to the company the particulars of their nominations. Shareholders may please write to the company for the prescribed Nomination Form.
17. The Securities and Exchange Board of India (SEBI) has mandated the submission of Permanent Account Number (PAN) by every participant in securities market. Members holding shares in electronic form are, therefore, requested to submit the PAN to their Depository Participants with whom they are maintaining their demat accounts. Members holding shares in physical form also submit their PAN details to the Company/Registrar and Transfer Agent, M/s Alankit Assignments Limited.
18. The Notice of the Annual General Meeting will be sent to those members whose name will appear in the register of members as on 8th September, 2011 received from the Registrar.
19. Annual Report is also available at the website of the Company at www.sirshadilal.com in the Investors Relations section.
20. For the security and safety of the Shareholders, no articles/baggage will be allowed at the venue of the meeting. The Members/Attendees are strictly requested not to bring any article/baggage etc. at the venue of the meeting.

By order of the Board

Place : New Delhi
Dated : 16th July, 2011

Sunit Malhotra
Secretary

Members may please note that no Gifts/Gift Coupons shall be distributed at the venue of the meeting.

ANNEXURE TO THE A.G.M. NOTICE

INFORMATION PURSUANT TO CLAUSE 49 IV(G) OF THE LISTING AGREEMENT REGARDING APPOINTMENT OF A NEW DIRECTOR OR RE-APPOINTMENT OF A DIRECTOR.

Sl. No.	Name of the Director	Date of Birth	Date of Appointment	Specialised/ Expertise	Qualification	Directorship of other Companies as on 31.03.2011	Chairman/ Member of Committees of other Companies as on 31.03.2011
1	2	3	4	5	6	7	8
1.	Smt. Sudha Singhania	03.04.1936	15.05.1983	General Management more than 28 years experience as Director of this company.	Intermediate	Meenakshi Synthetics Pvt. Ltd.	Nil
2.	Sh. Onke Aggarwal	05.04.1930	31.03.1965	General Management more than 46 years experience as Director of this company.	B.A.	Nil	Nil

By Order of the Board

Place : New Delhi
Dated : 16th July, 2011

Sunit Malhotra
Secretary



DIRECTORS' REPORT

DEAR SHAREHOLDERS,

Your Directors have pleasure in presenting the 77th Annual Report and the Audited Accounts of the Company for the year ended 31st March, 2011.

FINANCIAL REVIEW:

During the year under review, both the segments of your Company i.e. Sugar & Alcohol, passed through a difficult period. The summarised financial results are presented below:

		(Rs. in Lakhs)		
	For the Year ended March 31, 2011	For the Year ended March 31, 2010		
- Loss(-)/Profit(+) before Tax, Depreciation and Exceptional Item	(-)3539.62	(+)2918.76		
- Less: Exceptional Item	3102.94	-		
- Cash Loss(-)/Profit (+)	(-)436.68	(+)2918.76		
- Add/Less: Provision for Depreciation	1286.51	1456.12		
- Net Loss(-)/Profit(+) before Tax	(-)1723.19	(+)1462.64		
- Less : Provision for Taxation:				
Current Year	-	47.66		
Relating to earlier years	200.00	40.59		
Deferred Tax (Assets)/Liability	(512.60)	136.94		
Wealth Tax	2.52 (310.08)	2.60 227.79		
- Loss(-)/Profit(+) after Tax	(-)1413.11	(+)1234.85		

DIVIDEND:

Keeping in view the financial results for the year ended 31st March, 2011 and the present position of the current year, your Directors regret their inability to recommend any dividend for the year ended 31st March, 2011.

OPERATING REVIEW :

SUGAR DIVISION:

The manufacturing results of your both the sugar factories for the crushing season 2010-11 as compared to last crushing season are as under :-

	Upper Doab Sugar Mills		Unn Sugar Complex	
	Season		Season	
	2010-11	2009-10	2010-11	2009-10
- Gross Working days	149	150	134	140
- Cane Crushed (Qtls.)	8133546	8142391	4598019	4028743
- Average Cane Crush per Crop day (Qtls.)	55173	54831	34243	28773
- Manufacturing losses (%)	2.18	2.24	2.08	2.09
- Steam Consumption cane (%)	53.01	54.18	45.42	50.08
- Average Sugar recovery (%)	8.90	9.03	8.89	9.23
- Total sugar produced	723931	735392	408673	371858

The cane crushed during the sugar season 2010-11 as against sugar season 2009-10 in Unit Upper Doab Sugar Mills is almost at the same level. In Unn Sugar Complex the cane crushed has improved during the sugar season 2010-11 as against sugar season 2009-10 due to better yield of cane in the area and better crush rate per crop day.

The Sugar recovery % of cane has further declined during the season 2010-11, as against season 2009-10 in entire western U.P. and in our sugar units. The main reason for decline in recovery % at our sugar units was due to reduction of area under early maturing variety of cane. Further area under the variety CoSe 92423 for ratoon crop remained higher. The crop was also damaged by insects mainly White Grubs, Root Borers and Wilt, which resulted in fungus disease to the cane crop.

The steam consumption % cane and manufacturing losses has reduced in both sugar units as compared to last sugar season.



CANE DEVELOPMENT:

The company has constituted a Cane Development Committee to identify the problems for low cane recovery and low Pol% in cane and also to take remedial steps for improvement in the Pol% in cane and to improve the recovery. The Committee has worked out an action plan in this regard which is being implemented. For Cane development purpose, sizable expenses are also being incurred on insecticides spray work in the area, supply of disease free cane seed & various pesticides at subsidised rates to the farmers besides educating them to grow such varieties of cane which are useful in the different parts of the cane crushing season. This is a continuous process and further steps for betterment are being explored and implemented.

DISTILLERY DIVISION:

The Distilleries could not utilise the optimum capacity mainly due to poor off take of finished goods due to competition, un-remunerative prices and unfavourable excise policy of the State Government. Due to change in Excise Policy in U.P. there is no country liquor business in Distillery Units as a result of which we have not been able to sell our products in the market. Net realisations on account of sale of Extra Neutral Alcohol and Rectified Spirit were also adversely affected on account of higher rate of Export Duty in the State as compared to the neighbouring States.

Both your Distilleries produced 11117985 BL in the current year as against 9840335 BL in the previous year. The production in Unit Shamli Distillery is 7362188 BL in Current Year as against 5846428 BL in Previous Year. In Unit Pilkhani Distillery there is production of 3755797 BL in Current Year upto 26th February, 2011 as against 3993907 BL in Previous Year. Since the margin remained under pressure of Distillery products, your Distillery Units could not contribute to the profitability of the Company.

The Company has sold its unit Pilkhani Distillery & Chemical Works by execution of the Slump Sale Deed on 26.02.2011 with M/s Sainov Spirit Pvt. Ltd, New Delhi. The sale of unit Pilkhani Distillery & Chemical Works was approved by the Board of Directors of the Company in their meeting held on 17.07.2010 and by the shareholders through postal ballot on 09.09.2010.

DIRECTORS:

Smt. Manjula Viswanathan, Director of the Company expired on 19.12.2010. Smt. Manjula Viswanathan had been on the Board from 29.12.1975 as Director of the Company. She was actively associated with the affairs of the Company, rendered valuable guidance and sincere advice during her tenure as Director of the Company.

The following Directors of your Company are due to retire by rotation u/s 256 of the Companies Act, 1956. They are eligible for re-appointment and offer themselves for the same:-

1. Smt. Sudha Singhania
2. Shri Onke Aggarwal

The required information pursuant to clause 49 IV(G) of the Listing Agreement regarding experience, qualifications, name of the companies in which the above Directors hold directorship and membership of the Committee of the Board are given in the notice convening this Annual General Meeting against the relevant item of the Agenda.

Necessary resolutions for the re-appointment of the aforesaid directors have been included in the notice convening the ensuing Annual General Meeting.

None of the Directors of the Company are disqualified from being appointed as directors as specified in terms of Section 274 (1) (g) of the Companies Act, 1956.

AUDITORS:

M/s Basant Ram & Sons, Chartered Accountants, New Delhi, Auditors of the Company retires at the conclusion of the forthcoming Annual General Meeting and being eligible, offer themselves for re-appointment. They have furnished a certificate to the effect that they have subjected themselves to the peer review process of The Institute of Chartered Accountants of India and hold a valid certificate issued by the 'Peer Review Board' of the said institute and their proposed re-appointment, if made, will be in accordance within the limits specified u/s 224 (1-B) of the Companies Act, 1956.

AUDITORS' OBSERVATIONS & AUDITORS REPORT:

There is no adverse observation in the Auditors' Report. The note on accounts referred to in the Auditors Report are self-explanatory and therefore, do not call for any further explanations/comments.

COST AUDITORS:

The Central Government approved the appointment of Mr. Rishi Mohan Bansal as Cost Auditors for conducting Cost Audit for Sugar and Industrial Alcohol business for the Financial Year 2010-11.

The Cost Audit Reports for the last audited accounts for the financial year ended March 31, 2010 was filed by the Cost Auditors with respect to Sugar and Industrial Alcohol business on 27.09.2010, which is within the due date of 27.09.2010.

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**FIXED DEPOSITS:**

We report with satisfaction the confidence of the public in placing their fixed deposits with your Company. The total amount of fixed deposits as on 31st March, 2011 was Rs.4629.76 Lakhs as against Rs. 4962.50 Lakhs as on 31st March, 2010. Only a sum of Rs.5.53 Lakhs relating to 9 depositors was not claimed on due dates upto the end of financial year. The deposits of Rs.2.47 Lakhs relating to three depositors have been claimed and paid subsequently in the current financial year.

CONSERVATION OF ENERGY, TECHNOLOGY ABSORPTION, FOREIGN EXCHANGE EARNINGS AND OUTGO:

The particulars relating to energy conservation, technology absorption, foreign exchange earnings and outgo as required to be disclosed under Section 217(1)(e) of the Companies Act, 1956, read with Companies (Disclosure of Particulars in the Report of the Board of Directors), Rules, 1988 are provided in 'Annexure-1' and forms part of this Report.

PARTICULARS OF EMPLOYEES:

Particulars of employees as required under Section 217(2A) of the Companies Act, 1956, read with Companies (Particulars of Employees) Rules, 1975 as amended are given in 'Annexure -2' and forms part of this Report.

MANAGEMENT DISCUSSION AND ANALYSIS REPORT:

The detailed performance of both the business segments of the Company for the year ended 31st March, 2011 as required under Clause 49 of the Listing Agreement has been stated in the Management Discussion and Analysis Report in the section on Corporate Governance. Current year Prospects have also been discussed under this section of Corporate Governance.

CORPORATE GOVERNANCE:

The separate section on "Corporate Governance" including a certificate from the Auditors of the Company confirming compliance of the conditions of Corporate Governance as stipulated under Clause 49 of the Listing Agreement with Stock Exchanges is given in 'Annexure -3' and forms part of this Report.

CORPORATE GOVERNANCE - VOLUNTARY GUIDELINES:

The Board of Directors have taken cognizance of the 'Corporate Governance Voluntary Guidelines 2009' issued by the Ministry of Corporate Affairs (MCA) in December 2009. While the guidelines are recommendatory in nature, the Board recognises the importance and need to constantly re-visit governance practices thereby ensuring a sustainable business environment that generates long term value to all key

stakeholders. The Board would consider adopting the relevant provisions of the said guidelines as and when deemed appropriate.

DIRECTORS' RESPONSIBILITY STATEMENT:

Pursuant to Section 217(2AA) of the Companies Act, 1956, with respect to Directors' Responsibility Statement, the Directors confirm:

- (i) that in the preparation of the annual accounts, the applicable accounting standards have been followed by the company.
- (ii) that they have selected such accounting policies, applied them consistently and made judgments and estimates that are reasonable and prudent so as to give a true and fair view of the state of affairs of the Company at the end of the financial year and of the profit of the Company for the year ended on that date.
- (iii) that they have taken proper and sufficient care for the maintenance of adequate accounting records in accordance with the provisions of the Companies Act, 1956, for safeguarding the assets of the Company and for preventing & the detecting fraud and other irregularities; and
- (iv) that they have prepared the annual accounts on a going concern basis.

LISTING ARRANGEMENT:

The shares of the Company continue to remain listed with the Bombay Stock Exchange Limited and Delhi Stock Exchange Limited and the annual listing fee for the year 2011-2012 has been paid to both the exchanges.

CURRENT YEAR PROSPECTS:**i) SUGAR**

During the current Sugar Year beginning October, 2010, ICRA estimated the sugar production at 240-250 lakh tonnes. It was around 32% to 35% higher over the previous year, mainly on account of the improved cane acreage, adequate rains and in turn, increased productivity. However, with domestic consumption of around 230 lakh tonnes and export at around 10-15 lakh tonnes in sugar year 2010-11, total off-take is likely to match production. Thus the stock position at the end of sugar season 2010-11 is likely to report only a modest increase.

CANE PRICING:

The Central Government fixed Fair and Remunerative Price (FRP) for the sugar season 2010-11 of Rs. 139.12 per qtl. at 9.50% recovery with an increase of Rs. 1.46 per qtl. for 0.1% recovery as compared to the last sugar season. The U.P. Government fixed State Advised Price (SAP) of Rs. 205 per qtl.



for general variety and Rs. 210 per qtl. for early maturing variety for the season 2010-11.

The Sugar recovery % of cane has further declined during the season 2010-11, as against season 2009-10 mainly in western U.P. The main reason for decline in recovery % at our sugar units was due to reduction of area under early maturing variety of cane. Further area under the variety CoSe 92423 for ratoon crop remained higher. The crop was also damaged by insects mainly White Grubs, Root Borers and Wilt, which resulted in fungus disease to the cane crop. The company has constituted a Cane Development Committee to identify the problems for low Sugar recovery and low Pol% in cane and also to take remedial steps for improvement in the Pol% in cane and to improve the recovery. The Committee has worked out an action plan in this regard which is being implemented.

SUGAR PRODUCTION:

It is estimated that the production of sugar during the current season 2010-11 will be around 240 lakh tonnes as against the earlier estimate of around 245 lakh tonnes. The estimated production is still higher as compared to 190 lakh tonnes in the sugar season 2009-10. With an opening stock of about 58 lakh tonnes, sugar availability in current season would be comfortable at around 300 lakh tonnes, which is more than the domestic consumption of around of 230 lakh tonnes.

Sugar production in India is expected to touch 255 lakh tonnes in the coming sugar season 2011-12, thereby keeping a lid on price increase.

SUGAR PRICE:

The Government of India revised levy ratio from 20% to 10% during the crushing season 2010-2011 and also increased the levy sugar price for the season 2010-11 from Rs.1742.95 to Rs.1832.60 per qtl.

Sugar prices fell sharply from their peak in late 2009/early 2010 and have been range-bound since then given higher than expected production in the current season. This has resulted in substantial losses for the sugar industry from the quarter ended March 31, 2010 onwards.

Going forward, any significant strengthening of domestic sugar prices in the near future (i.e. before the next season's production enters the market) is unlikely, unless Central Government relaxes the measures taken by it earlier to curb sugar prices.

OUTLOOK:

The sugar industry's long standing demand of deregulation was actively considered at the highest level of the government. However, the government was unable to take a decision and the industry waited anxiously for this development. It would be pertinent to indicate that globally the sugar industry is deregulated. Since India is the largest sugar consumer, deregulation would be in the broader interest of all stake holders, growers, millers and consumers as it would reduce the cyclic impact and minimise government intervention.

ii) ETHANOL BLENDING:

The decision to continue with 5% mandatory blending of ethanol with petrol has been reiterated by the Government after detailed discussions. The oil marketing Companies have now come forward to procure their requirement of 5% mandatory blending during 2010-11 sugar season. Supplies of ethanol have begun during the last week of October, 2010. However, the ethanol continues to be supplied on provisional prices of Rs.27/- per Ltr. ex-factory as fixed by the Government.

INDUSTRIAL RELATIONS:

The industrial relations have been cordial at all the plants of the Company during the year.

APPRECIATION:

Your Directors wish to place on record their sincere thanks and appreciation for the devoted services rendered by the employees of the Company at all levels. We also place on record our appreciation to the Financial Institutions, State Bank of India, Punjab National Bank, other business associates and Government Authorities for their valuable co-operation and support from time to time. We would also like to express our thanks to our Shareholders and Depositors for their continued confidence in the company.

For and on behalf of the Board

Place : New Delhi
Dated : 16th July, 2011

Onke Aggarwal
Chairman

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ANNEXURE '1' TO DIRECTORS' REPORT

INFORMATION AS PER SECTION 217 (1) (e) READ WITH COMPANIES (DISCLOSURE OF PARTICULARS IN THE REPORT OF BOARD OF DIRECTORS) RULES, 1988 AND FORMING PART OF THE DIRECTORS' REPORT FOR THE YEAR ENDED 31ST MARCH, 2011.

A. CONSERVATION OF ENERGY

a) Energy conservation measures taken

Upper Doab Sugar Mills

- Addition of one Cell of Cooling Tower for efficient working.
- Use of Exhaust Steam in place of Live Steam in transient heaters.
- Partial application of air in place of Live Steam in cut over lines at Pan Station.
- Installation of efficient luminaries as CFL & Led Lamps.
- Installation of light sensors at street & plants general lights.
- Use of delta to star converter starter at variable load pumps.
- Stopping the Tube Wells for water conservation and power saving.

Unn Sugar Complex

- Installation of variable frequency drive system for ID & FD fan to save power consumption by 99 KW/Hour.
- Installation of Condensing & Cooling system to save power consumption by 91 KW/Hour.
- Installation of Turbine for Feed Pump at Boiler to save power by 187 KW/Hour
- Installation of Mass flow Meter to save power by 55 KW/Hour.

b) Additional investments and proposals, if any, being implemented for reduction of consumption of energy.

Upper Doab Sugar Mills

- Total elimination of live steam by installing electric boiler for Sulphur Melting in Sulphur Furnance.
- Total elimination of live steam by using exhaust condensate and exhaust steam in PTHE for Auto Centri Fugal.
- Replacement of existing transient heaters by new heaters for using exhaust steam/vapour for saving of steam consumption.
- Installation of 4 nos. VFD at boilers for power reduction.
- To use non Condensable gases of 1st Quad Body in heating of molasses in molasses conditioner, there will be saving of live steam.

c) Impact of the measure at (a) & (b) above for reduction of energy consumption and consequent impact on the Cost of production of goods.

Upper Doab Sugar Mills

Impact of the measure at (a)

- Power saving 67 KW/Hr. by installing of one set of Cooling Tower.
- Steam saving by 0.3% of cane by using exhaust steam in place of Live Steam in Transient heater and by using air in place of Live Steam in cut over lines at Pans.
- Power saving about 20-25 KW/Hr. by installing CFL, Lamps and Sensors and to use delta starter in place of star.
- Power saving of 125 KWh per day by stopping the tube well during night hours.

Impact of the measure at (b)

- By additional investment being implemented at (b) there will be reduction in steam consumption by 2.5% cane.

Unn Sugar Complex

The Energy Conservation measure taken at (a) has helped to reduce the Power Consumption from 31.70 KW to 27.20 KW per tonne of cane/hr.



- d) Total Energy consumption and energy consumption per unit of production as per form 'A' of the Annexure in respect of industries specified in the schedule thereto.

Particulars in respect of Sugar & Distillery Units of the Company as per Form 'A'.

(A) Power and fuel consumption :	Sugar Unit		Distillery	
	Current Year		Current Year	
	Previous Year		Previous Year	
1. Electricity :				
a) Purchased (Units)	19,36,124	66,320	18,07,607	37,577
Total amount (Rs.)	1,56,56,515	3,59,446	1,06,89,460	2,47,580
Rate/Unit (Rs.)	8.09	5.42	5.91	6.59
b) Own Generation :				
i) Through Diesel Generator (Units)	7,87,576	5,06,794	10,66,036	6,50,592
Unit per Ltr. of Diesel oil	2.96	2.91	2.98	2.93
Cost/Unit (Rs.)	13.00	12.37	11.32	10.57
ii) Through steam Turbine (Units)	3,27,83,756	57,47,021	2,65,60,313	55,80,331
Unit per pound of Steam	1.816	0.09	1.751	0.084
Cost/Unit (Rs.)	1.28	6.26	1.78	7.32
2. Coal (specify quality and where used) :				
(a) Fire-wood used in Boilers:				
Quantity (MT)	NIL	NIL	NIL	NIL
Total value (Rs.)	NIL	NIL	NIL	NIL
Average Rate per MT (Rs.)	NIL	NIL	NIL	NIL
(b) Saw Dust :				
Quantity (MT)	NIL	NIL	NIL	NIL
Total value (Rs.)	NIL	NIL	NIL	NIL
Average Rate per MT (Rs.)	NIL	NIL	NIL	NIL
(c) Rice Husk :				
Quantity (MT)	NIL	5,228	NIL	4,724
Total value (Rs.)	NIL	1,93,24,835	NIL	1,35,97,007
Average Rate per MT (Rs.)	NIL	3,696.18	NIL	2,878.56
3. Furnace oil :				
Quantity (KL)	NIL	NIL	NIL	NIL
Total value (Rs.)	NIL	NIL	NIL	NIL
Average Rate per KL (Rs.)	NIL	NIL	NIL	NIL
4. Other (own bagasse)				
Quantity (MT)	3,44,483	26,860	2,61,688	23,918
Total value (Rs.)*	51,68,87,312	4,79,19,973	48,88,13,887	4,72,89,984
Average Rate per MT (Rs.)	1,500.47	1,784.04	1,867.93	1,977.14

*Bagasse, a residual received after crush of cane, is used as fuel in boilers. The notional value of the same has been taken at an average sale price for the year.

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ANNEXURE TO DIRECTORS' REPORT CONTD.....

(B) Consumption per unit of production :

Products	Current Year		Previous Year	
	Sugar	Alcohol	Sugar	Alcohol
Unit	Qtls.	BL	Qtls.	BL
Electricity KWH	28.90	0.445	31.54	0.513
Furnace oil KL	NIL	NIL	NIL	NIL
Fire-wood MT	NIL	NIL	NIL	NIL
Bagasse MT	0.280	0.002	0.276	0.003
Saw Dust	NIL	NIL	NIL	NIL
Rice Husk	NIL	0.0005	NIL	0.001

B. TECHNOLOGY ABSORPTION

EFFORTS MADE IN TECHNOLOGY ABSORPTION AS PER FORM 'B'

I) Research & Development (R&D)

1. Specific Areas in which R&D carried out by the Company :
 - : To improve crop health, propagation of improved varieties and insects, pest and disease control.
 - : To shift the area of summer planting into spring and autumn.
 - : To improve the area under early maturing varieties upto 20% - 25% in next three years.
 - : Inter cropping with sugarcane to minimise the cost of sugarcane production per unit area.
 - : Introduction of new planting method i.e. Trench planting.
2. Benefits derived as a results of the above R & D : It will help in increased yield per unit area as well as pol % cane.
3. Future plan of action : The Company plans to continue the Research & Development activities so as to achieve the targets of cane crush and high sugar recovery, better productivity and yields, reduced wastage, reduced cost, reduction of raw material/utilities and to improve efficiencies.
4. Expenditure on R & D:
 - a) Capital NIL
 - b) Recurring Rs. 44,17,042
 - c) Total Rs. 44,17,042
 - d) Total R & D expenditure as a percentage of total turnover 0.13%

II) Technology absorption, adaptation and innovation:

1. Efforts, in brief, made towards technology Absorption, adaptation and innovation

Upper Doab Sugar Mills

- We plan to install Electric Boiler for Sulphur Furnace for reducing steam consumption.
- We plan to install 4 nos. VFD's on ID Fan on Boiler for reducing power consumption.

Unn Sugar Complex

- DCS based linear control system at Mills was introduced to give consistence power load at mills during crushing of cane.
- Different type of additional pumps were installed to achieve higher crush rate.
- Additional Juice Heater has been installed to achieve higher crush rate.
- Additional Juice, Syrup sulphiter has been installed to achieve higher crush rate.