

PROJECT SUMMARY

Project Type: CO-GENERATION**Commissioning Date:** December 2017**Company Overview:**

SM Spinning Mills Ltd (SMSML) is one the subsidiaries of SM Group of companies. The plant capacity is 55,000 spindles and they produce 32 Tons of yarn per day. 70% of the production is exported and rest is used in its own plant for garments.

Location: Dhaka- Sylhet Highway, Hobiganj**Gas Gensets details:**

CATERPILLAR CG170-16K X 4 units with 1500 KWe.
Total capacity of the plant is 6,000 KWe.

VAM Details:

VOLTAS Co Generation (Exhaust+ Hot water)
Driven Chiller with capacity of 4 X 415TR &
VOLTAS Direct Natural Gas Driven chiller with
capacity of 1X 740TR.
Total Chilling capacity of the plant: 2,400TR

TECHNICAL SUMMARY

SMSML was operating with 6000 KWe captive power plant with an efficiency of 41.0%. The power plant was wasting 34,620 kg/Hr of exhaust gas at 493Deg C and 260 CMH of hot water at 93/82 Deg C. The chilling requirements of SMSMSL was 2400 TR to maintain the temperature as well as humidity of the plant, which is required for producing quality yarn. KEBD installed Voltas Cogeneration chiller that can produce 1660 TR from the waste exhaust gas and hot water. KEBD also installed another Direct natural gas fired chiller of 740TR for fulfilling the complete chilling requirement. KEBD did this energy efficiency project on turnkey basis within nine months time. The cogeneration chiller capacity is 1660 TR and it is equal to 5,838 KW. The captive power plant efficiency was increased from 41.0% to 87.2%.



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