The cane sugar industry, globally, can be said to have been mesmerized and ruled by the conventional Three Roller Mill for more than two centuries, is an uncontested fact and also perhaps an unparallel and unique fact. Irrespective of whatever faults and shortcomings one may find, we have to pay tribute to this record breaking equipment – the conventional 3 Roller Mill. Perhaps, one cannot find any other equipment or technology, having similar record in any Industrial History. It also cannot be denied that no replacement or alternative to this Mill could be found, in spite of continued efforts stretching over two centuries or so, by the cane sugar world. It nevertheless remains an undisputed fact that even today, some of the basic and fundamental principles and configurations of the basic Cane crushing Mill continue to rule, albeit with some justified and long awaited changes. With due respect to the industry and the conventional Mill, it must be recognized that after all this, the conventional Mill also served the industry with progressive improvements and developments, however slight or insignificant we may find it today.

Coming back to the present scenario, it can be certainly said that the cane sugar industry was awaiting a new and economic but efficient Mill, and it has now got it, in the form of the C M R Mill. In fact it has more than got what it wanted, for the simple fact that the Industry wanted an energy saving Mill and what it got now is an energy saving Mill, which takes care
of all other expectations like enhanced efficiency, convenience and all round performance with reduction in bagasse moisture thrown in. In the history of heavy industrial equipment, perhaps for the first time ever, we now have equipment which will take less power and still give higher efficiency and performance.

Dissatisfaction is the mother of all inventions, it is said. It therefore implies that the developers of the C M R Mill must not remain satisfied about the introduction and success of the C M R Mill and must remain alert and agile and continue their work for further improvements. The following can be general direction of future work –

A. Continue studies and work for possible improvements in the present design of the C M R Mill, so that it would be more or less a perfect design.

B. As a next logical step, carry out research and development activities so that an entirely new design of a cane crushing Mill is developed over a period, delivering more advantages.

While the development team is already working on plan (A) and has already put some improvements on the drawing board, this task has to be relentlessly continued.
As far as the plan (B) is concerned, it can be certainly said that it is not only not an easy task, but may involve efforts during next couple of generations.

On the basis of historic record of the conventional Mill remaining unchallenged during last more than two centuries or so, it can be safely trusted that the C M R Mill is here to serve the Global cane sugar industry for at least a century or even more.

I may put on record here the growing references of Indian Scientists heading global institutions and establishing records of stunning new developments. The recent successful Indian mission to Mars in the first ever attempt is a living testimony. With the Indian cane sugar industry already heading the volumes of production globally and continuing steady and planned further growth, ably aided by parallel developments in Agricultural fields, imbibes hope that the next new cane crushing Mill will certainly be an INDIAN MILL ONLY, AFTER THE SUCCESS OF THE C M R MILL.

The cane sugar industry is now establishing itself as the Industry of the Energy Sector – renewable Energy Sector, to be precise. With depleting natural resources, like coal and oil, the world scientist fraternity is on the
lookout for newer sources of Energy, and particularly Renewable Energy. The day may not be very far, when the sugar itself will be looked down as a by-product and energy in the form of Electric Power and Ethanol will be primary products.

Scientists and Agriculturists are already on the lookout for crop similar to cane which can be crushed during the off season when cane is not available. This crop may have a short gestation period so that two or more crops can be taken in a year. Alcohol could be distilled from the juice and finally Ethanol. As the cane crushing season in most of the countries including India is generally limited to 5 – 6 months only. A day may not be far away when the sugar factories will crush cane for 5-6 months or so and for next 4-5 months the crushing will be of the “other” crop. The sugar factories may have to work around the year like other industries.

The future Mill may have to consider these likely vistas of possibilities and developments. The future Mills must have flexibility to crush these different crops with required acumen and efficiency.

In parallel development people are already trying Sweet Shorghum and few other varieties and trials are understood to be under way. The future Mill must be able to handle various such crops and will have to be designed with Engineering and Metallurgy suiting to these. Now the
technology developers will have to be ahead of times with anticipatory actions to meet the challenges of future.

All these days the coconut tree has been seen as the “Kalpa Vriksha”, the Tree from Heavens which would bestow whatever prayed to it! Provided of course that one is qualified enough – virtuous enough!!

With the C M R Mill in our backyards, not only this Mill makes everyone virtuous on owning it, but the CMR Mill would bestow everything dreamt by any Management! In other words, with the C M R Mill waiting for adoption, one can now have the cake and eat it too!