

All Solution's Under One Roof

# **R B PATIL & ASSOCIATES**

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REF. NO. – RBP / DISTILLERY / VISIT REPORT / 2023-2024

Date: - 10 /10 /23

To,  
The Managing Director  
Appasaheb Nalavade Gadhinglaj Taluka  
Sahkari Sakhar Karkhana Limited  
Harali Tal – Gadhinglaj, District – Kolhapur.

## **Visit report**

**Kind attention – Hon'ble chairman - Dr Shahpurkar saheb.**

Respected sir,

As per your instruction & telephonic talk had with your distillery manager Shri Ranjit Desai, I visited yesterday for inspection and visit of your sugar factory at Harali site.

First upon I will like to congratulate honorable chairman Saheb for their vision, efforts and right steps taken for taking out this sugar factory from the financial crisis.

### **Distillery report**

You're existing and proposed distillery location, existing position of upgradation and new installation of distillery plant as well as ethanol plant was studied during the visit along with distillery manager Ranjeet Desai Saheb.

1. Considering the time in hand very less for starting crushing season, we should start the distillery with existing and some new equipment along with sugar factory crushing operation ceremony.
2. Existing fermenter, pre fermenter, wash tanks should be utilized at the start along with new capacity and ordered analyzer rectifier and aldehyde columns which should be installed by month by the of October.
3. It is necessary to install new ethanol plant within one month up to 10th November, so that along with sugar factory starting diversion of syrup for ethanol production will be possible.
4. New fermenter tanks of 3,60,000-liter capacity -- 4 nos & it's sludge settling tank of 1.5 lakh liter capacity, civil foundation work should be speed up further to complete all work by end of October.
5. At first stage within 10 days minimum two civil foundations for fermenter tank should be completed and given in hand of alco-tech to start erection and fabrication work of tanks.

6. Considering the shortage of cane & less crop days We should complete new distillery and ethanol plant erection work on or before first week of December and taken online to run the new distillery & Ethanol plant on syrup for 70 KLPD capacity.
7. At time of starting sugar factory crushing operation, we will start our distillery and ethanol plant by using old distillery equipment of fermenter on 40 KLPD capacity.  
  
For that necessary rectification and maintenance work of old distillery equipments should be done correctly and adequately.
8. Your steam requirement for new distillery is 12 ton per hour, at 1.5 kg pressure. For that existing power house turbine back pressure modification work is going on, so that we need not required to give live steam from boiler to distillery & can run the distillery on exhaust steam of turbine only.
9. Your existing standalone evaporator for concentrating spent wash, require 3-ton live steam of 3.5 k.g. pressure, and is in good condition.
10. total steam requirement of your standalone evaporator and proposed new distillery along with Ethanol plant is  $12 + 3 \text{ ton} = 15 \text{ ton}$  and that much provision is done in the existing boiler by increasing its capacity.
11. During season we have to run the distillery on syrup, and sugar factory B heavy Molasses should be stored for running distillery in offseason.
12. For storage of b heavy molasses in season, new storage tank fabrication work is in hand, and we can storage around 26 000 metric ton b heavy molasses during season.
13. New ethanol plant is to be installed in the space available in existing distillation section.
14. The required peso tank license, fire license work is in progress with appointed agency.
15. From MPCB board, considering our existing distillery sanction for spent wash generation, NIPL certificate should be taken at the earliest.
16. The spent wash generation in proposed distillery by running it on syrup at 70 KLPD capacity will be 2.80 lakh liter per day & by concentrating it in standalone, by increasing its bricks we can reduce its quantity 50%, and can bring down it up to 1.4 lakh liter per day & and it should be utilized in compost yard by mixing with press mud and producing composting fertilizer for agriculture.
17. In order placed of new distillery & ethanol plant, it is necessary to mention the make of all bought out items, valves, flow meters, pumps, motors, instrument automation etc.
18. Considering the time in hand very less, it is necessary to keep one expert chemist, at Baramati shop for follow up & day today reporting to the management.

19. The alco-tech company should give and submit the bar chart considering 7 weeks in hand for procurement of the material, fabrication bending, welding, assembly, purchasing bought out items, inspection at works, supply, erection & commissioning work.

And this schedule should be very strictly followed and review should be taken at every week so that there should not be any delay either in procurement, fabrication supply and erection work.

20. If factory and management wish to install additional 140 KLPD distillery & ethanol plant next crushing season,

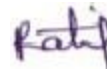
Then considering the time required for licensing, license and permissions from Central Government, State Government, MPCB, CPCB, public hearing and environment clearance, that work must be started on urgent basis, as it will take time of minimum 10 to 12 months, for overall procedures & formalities.

I once again thanks to honorable chairman Saheb & management for keeping faith on our consulting organization & given opportunity to serve your esteemed organization.

Always assuring you our best, fast, confident, honest, perfect & result oriented services all the time.

Thanking You,

Yours Faithfully



R.B. PATIL

TECHNICAL DIRECTOR

R.B. PATIL & ASSOCIATES