

R B PATIL & ASSOCIATES

S-10, Kings Court, Shivaji Park, Kolhapur, Tal - Karvir, Dist - Kolhapur, Maharashtra.
Pin – 416001

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Date: - 03.06.2023

Manganga Sugar Atpadi

Visit Report of Distillery

Capacity of Distillery – 30 KLPD

Make - Praj

Type – Semi Continuous Fermentation & Atmospheric Distillation

Product – Molasses to R.S. (Rectified Spirit) + 0.2 % add & S.D.S. (Denatured Spirit)

S.D.S. - Special Denatured Spirit

O.D.S. - Ordinary Denatured Spirit

Inspection Report & Addition, Rectification Required to Increase capacity from 30 KLPD to 55 KLPD

- 1 Existing M1 and M2 molasses tank in the sugar factory premises, it's top to be repaired / replaced.
- 2 M2 tank to be used as M2 tank but Day tank of capacity 110 ton to be used without increasing size to avoid expenditure.
- 3 Addition of 2.5 lakh liter capacity fermenter tank with its all accessories.
- 4 Addition of 2 nos pre- fermenter tank of capacity 60 m³ - 60, 000 liter along with Pump, PHE, Piping, Valve transfer line etc.
- 5 Existing wash settling tank top to be repaired / replaced.
- 6 All damaged piping to be changed as per necessity.
- 7 Fermented wash pump and pipeline, valve replacement for suitable capacity of 55 KLPD proposed distillery.
- 8 Fermentation section total panel board, switch yard, bus bar and cabling to be changed as per necessity and missing one.

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- 9 Existing old 2 nos cooling tower external FRP is damaged which should be replaced and changed.
- 10 New cooling tower to be installed for suitable capacity of proposed 55 KLPD RS and 52 KLPD Ethanol Plant.
- 11 Epoxy coating to all fermenter and MS tank in the distillation to avoid rusting.
- 12 All distillery plant and machinery along with its structure to be painted by corrosion resistance paint.
- 13 a) New year blower – 2 nos of adequate capacity to be installed.
b) Molasses pump – 4 nos of adequate capacity with motor and accessories for proposed distillery capacity of 55 KLPD.
- 14 Bio-digester tank top portion to be replaced / repaired.
Also gas holder tank and dome, degasser which is worn out completely to be replaced.
Its gas blower condition to be checked and repaired.
- 15 Instrumentation of all fermentation section.

Distillation section capacity expansion from 30 KLPD to 55 KLPD

- 1 Existing analyzer column to be discarded and from it, new capacity and size aldehyde column to be manufactured, suitable for 55 KLPD new capacity.
- 2 Adequate suitable capacity analyzer degasifying column to be replaced with new one, suitable for 55 KLPD new capacity.
- 3 Rectifier Column damaged and leaked segment to be repaired rectified & replaced.
- 4 Addition of 2 nos adequate capacity condenser including cooling PHE.
- 5 Replacement, addition of new header and fitting adequate capacity new pipeline to condenser.
- 6 All instrumentation panel to be replaced for proposed capacity of 55 KLPD.
- 7 All electrical panel internal material is missed, hence to be replaced / added, new bus bar, switch fuse unit and cables as per necessity.

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- 8 Wash preheater to be installed of new capacity and suitable capacity of vapour liquid pipeline.
- 9 Spent wash transfer pump of a new adequate suitable capacity to be installed.

This is our observation and technical guidelines after visit at Managanga sugar factory.

Thanking You

Yours Faithfully

R B PATIL
TECHNICAL DIRECTOR
R B PATIL & ASSOCIATES
Distillery Consultant