EQUIPMENT LIST INTERESTERIFICATION PLANT

NO	DESCRIPTION	Unit	SPESIFICATION PART
1	Agitator Reactor Vessel @ 25 m3	1	MIXTEC Mixer 15 KW Model : 2107 KW : 15 Tank Diameter : 1.69m Tank Height : 6.005m Tank Top : Dished Tank Bottom : Dished Liquid SG : 0.797 Viscosity : 2.2 mPa.s Pressure : 20 barG Temperature : 230 degC Design Liquid Level : 5.46m Total Pumping Rate : 154.2 m3/min Tank Turnovers : 12 per min Motor : IE3 Brook Crompton Ingress Protection : IP55 c/w explosion proof II 2G Ex db eb IIC T4 c/w Shut Off Device c/w Mixtec Choice Double Cartridge Mech Seal
2	Niagara Filter	2	complete with: 1. Vessel material : Q345R 2. Specification : Ø1400 * 3638 3. Filter Leaf : 17 pcs 4. Include DN600 Butterfly Valve and Vibrator 5. Seal Hydrogenated NBR of Butterfly Valve Model : JJBH-ZS1400 Filtration Area : 52 m2 Design Pressure : 5 bar Design Temperature : 150 °C Working Pressure : 4.5 bar Working Temperature : 105 °C Hydrostatic Test Pressure : 6.13 bar Vessel Dia : 1400 mm Filter Leaves : 17 pcs MOC : Q345R Cover Gasket : Silicone Rubber 1 ply Drainage Mesh : AISI 316 L 2 ply Support Mesh : AISI 316 L 2 ply Fine Filter Mesh : 316 Special Alloy /904L
3	Feeding Pump & Rundown Pump	2	Type : Centrifugal Pump Model : - Q : 30 m3/h H : 40 m Motor : 7,5 KW - 380V - 50Hz - 2900rpm Material : Casing CS, Impeller CS, Shaft SS420 MECH SEAL : SINGLE MECH SEAL Inlet/Outlet : DN65/DN50 Connection : Coupling
4	Bleaching Pump	1	Type : Centrifugal Pump Model : - Q : 30 m3/h H : 40 m liquid : include 1%-3%bleaching earth Motor : 7,5 KW-380V-50Hz-2900rpm Material : Casing CS, Impeller CS, Shaft SS420 MECH SEAL : DOUBLE MECH SEAL Inlet/Outlet : DN65/DN50 Connection : Diaphragm coupling

5	Loading & Unloadnig Pump	2	Type : Centrifugal Pump Model : - Q : 50 m3/h H : 40 m Motor : 11 KW - 380V - 50Hz - 2900rpm Material : Casing CS, Impeller CS, Shaft SS420 MECH SEAL : SINGLE MECH SEAL Inlet/Outlet : DN65/DN50 Connection : Coupling
6	PHE	1	Model : TL10-PFM Fluid : Palm Oil Density : 849,6 kg/m³ Specific heat capacity : 2,2 kJ/(kg·K) Thermal conductivity : 0,166 W/(m·K) Mass flow rate : 30 kg/h Inlet Steam temperature : 135,0 °C Inlet Oil Temp : 40,0 °C Outlet Condenstae temperature : 80,0 °C Outlet Oil Temp : 70,0 Heat exchanged : 945,1 kW LMTD: 27,8 K Heat transfer area : 59,00 m² Relative directions of fluids : Countercurrent
7	Weighbridge		Panjang Platform : 14 m Lebar Platform : 3,2 m Jenis : Concrete Deck Jumlah Loadcell : 6 buah (kapasitas 40 ton) Indikator : Digital, Printer & PC Akurasi : Kelas III OIML, d = 10 kg/20 kg Ramp : 2 sisi, panjang 2 m Power : 220V + UPS + Stabilizer Tambahan : Canopy, Bumper, Traffic Light, Software Timbangan.
8	Reactor Vessel	1	Volume : 25 m3
9	Receiver Tank	1	Volume : 5 m3
10	Air Compressor	1	Model : 20HP Power: 15kw Pressure : 8.0 BAR Replacement: 2.0 m³/min Lubrication style : Oil lubrication Transmit mode : Star Delta/Fixspeed Voltge : 380V/50HZ, 3 phase Air outlet size : DN25 Noise : 72±2db Exhaust oil content : ≤3ppm
11	Pure Air Pre Filter	1	Rated Capacity : 2.5 m3/min Air Quality : 1 micron @ 0.5 ppm Connection Size : DN 25
12	Pure Air After Filter	1	Rated Capacity : 2.5 m3/min Air Quality : 0.01 micron @ 0.01 ppm Connection Size : DN 26
13	Vertical Air Receiver Tank	1	Capacity : 2000 Liter Working Pressure : 10 Bar Test Pressure : 15 Bar