

LAMPIRAN 1**DATA WAKTU SIKLUS Pengerjaan BOGGIE pada bagian CORE MAKING**

DATA KE-	O-1	O-2	O-3	O-4	O-5	O-6	O-7	O-8	O-9	O-10	O-11	O-12	O-13	Total
1	148	43	134	60	186	53	66	103	105	144	169	309	230	1750
2	134	50	156	43	164	60	52	136	95	184	182	443	191	1890
3	155	53	149	58	176	68	63	51	90	131	71	431	211	1707
4	114	57	139	51	146	72	65	70	110	113	71	539	183	1730
5	189	52	174	42	138	49	47	93	76	84	160	399	203	1706
6	179	52	170	41	151	80	52	59	70	178	103	445	244	1824
7	130	58	177	59	189	67	48	106	78	175	100	497	251	1935
8	179	50	172	43	139	42	76	86	98	165	146	641	180	2017
9	140	47	172	44	235	82	52	96	95	185	88	503	203	1942
10	114	56	178	49	163	104	47	55	137	87	75	640	251	1956
11	113	43	121	45	132	47	66	78	129	82	95	539	214	1704
12	106	49	149	48	145	96	54	132	74	84	108	537	206	1788
13	152	53	173	50	173	113	64	59	87	121	142	422	181	1790
14	132	58	134	57	231	50	73	54	101	113	103	588	228	1922
15	157	50	142	51	105	75	73	98	84	89	166	379	206	1675
16	136	43	175	50	135	52	54	62	111	100	121	579	193	1811
17	108	41	147	50	170	104	67	130	97	89	115	500	259	1877
18	141	49	124	52	179	82	68	116	155	80	101	494	223	1864
19	169	38	130	53	102	44	69	105	90	157	121	490	257	1825
20	126	44	123	41	163	87	66	93	99	90	151	637	196	1916
21	130	56	147	40	141	88	55	63	114	139	173	611	210	1967
22	135	53	153	54	132	104	72	143	137	136	72	352	197	1740
23	152	48	135	55	179	67	72	62	151	138	74	626	250	2009
24	137	50	169	54	177	82	58	127	72	89	147	454	258	1874
25	178	54	144	49	149	91	47	62	77	181	101	348	183	1664
26	126	58	142	52	183	51	55	111	146	107	108	403	230	1772
27	116	57	150	54	120	85	54	60	88	81	80	553	257	1755
28	105	50	173	44	102	90	76	95	115	88	147	414	194	1693
29	139	54	147	46	139	102	76	98	98	90	87	431	187	1694
30	176	49	141	41	158	73	54	100	152	87	122	575	232	1960
31	190	49	155	39	168	103	70	74	118	122	96	472	239	1895

32	156	47	180	50	191	50	52	118	132	105	177	508	256	2022
33	114	44	137	53	161	104	73	89	88	114	91	312	253	1633
34	162	55	177	42	169	61	52	74	160	84	157	613	178	1984
35	139	52	150	56	155	114	74	59	116	114	125	539	196	1889
36	119	50	131	49	205	86	55	143	141	81	134	372	208	1774
37	113	47	134	48	177	116	58	98	100	83	78	636	234	1922
38	133	51	160	56	113	53	76	85	161	89	177	330	180	1664
39	166	51	180	56	152	86	54	112	117	129	151	559	206	2019
40	118	44	164	45	210	43	62	123	112	86	165	394	249	1815
41	141	46	189	40	210	87	77	111	114	90	123	476	258	1962
42	169	38	134	49	178	73	67	99	113	88	169	611	234	2022
43	175	47	119	38	211	76	55	109	105	106	117	550	213	1921
44	183	43	189	40	126	44	64	92	157	168	178	331	243	1858
45	149	56	142	45	155	68	62	106	115	86	98	503	191	1776
46	145	49	156	42	152	81	54	69	149	84	179	390	280	1830
47	132	57	174	44	158	71	53	80	159	110	115	380	231	1764
48	173	46	162	45	100	120	66	100	113	112	77	597	240	1951
49	166	41	120	54	157	52	77	89	113	175	167	424	225	1860
50	143	42	121	50	156	84	70	107	158	137	72	631	258	2029
51	116	38	155	47	144	103	65	143	90	141	145	483	208	1878
52	125	46	160	44	190	43	51	64	79	158	97	435	249	1741
53	211	49	169	55	103	63	67	96	163	139	119	604	253	2091
54	114	49	185	56	198	114	59	134	150	124	140	350	177	1850
55	107	53	171	53	122	50	51	143	158	87	89	460	228	1772
56	164	40	178	57	108	76	51	107	121	88	120	514	218	1842
57	161	51	118	55	112	68	53	110	154	150	166	542	206	1946
58	155	55	136	50	167	80	47	144	86	86	151	393	188	1738
59	125	55	220	49	196	40	76	129	122	149	98	548	194	2001
60	175	41	129	50	177	43	53	94	98	89	103	479	194	1725
61	156	45	154	57	149	59	65	142	125	103	82	571	187	1895
62	135	54	130	46	206	104	68	116	103	92	149	373	257	1833
63	117	58	138	59	182	116	64	129	84	124	141	601	238	2051
64	164	39	173	42	129	61	68	115	83	138	81	512	199	1804
65	172	44	131	41	191	55	63	57	87	85	77	464	257	1724
66	147	52	163	53	115	72	73	69	148	183	144	626	230	2075
67	180	47	186	46	122	41	57	112	135	110	102	339	250	1727
68	158	51	135	44	115	43	77	50	100	148	102	338	198	1559

69	132	49	150	48	146	50	50	53	112	82	150	361	190	1573
70	174	51	145	59	180	118	74	69	82	151	122	322	253	1800
71	155	53	151	53	162	61	58	130	137	132	90	362	242	1786
72	176	40	159	53	115	58	50	62	111	125	86	640	178	1853
73	169	40	149	50	194	85	60	93	166	91	156	312	248	1813
74	172	38	147	56	121	61	51	98	159	107	131	366	188	1695
75	163	54	145	41	142	63	72	67	147	178	112	534	239	1957
76	143	58	154	44	204	66	61	113	79	164	73	314	197	1670
77	129	38	119	51	179	103	73	86	94	96	138	428	203	1737
78	221	40	178	47	195	124	60	59	101	95	72	564	232	1988
79	171	38	123	51	148	127	59	120	144	146	181	443	189	1940
80	157	49	166	52	108	69	62	71	137	149	180	494	219	1913
81	153	55	171	59	190	94	63	88	76	174	76	549	246	1994
82	179	46	141	54	200	115	51	118	151	180	128	606	215	2184
83	171	46	136	44	223	51	58	137	80	135	176	594	215	2066
84	154	43	188	46	117	98	59	79	97	88	166	346	225	1706
85	111	48	147	40	180	46	65	99	79	152	182	346	187	1682
86	116	47	145	59	153	92	66	123	74	106	161	505	257	1904
87	161	52	126	47	146	88	67	89	103	162	154	393	205	1793
88	173	45	183	50	188	100	76	73	140	128	121	330	252	1859
89	212	38	180	55	211	107	74	65	128	151	116	380	203	1920
90	123	42	164	51	175	49	59	90	158	172	112	362	223	1780
91	119	50	180	53	154	91	63	125	95	125	154	529	240	1978
92	121	39	146	49	112	98	69	89	128	144	112	601	229	1937
93	109	56	184	39	204	111	68	70	132	93	125	553	199	1943
94	122	47	145	50	113	113	59	67	136	182	145	508	255	1942
95	105	50	178	58	209	119	66	80	136	135	122	445	250	1953
96	124	50	169	38	168	116	68	84	113	183	77	540	252	1982
97	150	42	220	41	168	55	52	104	155	105	110	449	219	1870
98	148	46	158	48	207	91	61	60	136	83	97	607	192	1934
99	139	38	135	53	129	104	56	51	94	121	179	579	245	1923
100	176	48	138	44	110	88	48	142	163	184	115	334	209	1799
101	124	44	182	44	101	51	60	128	111	86	101	365	256	1653
102	165	45	144	47	156	52	60	75	151	173	109	363	256	1796
103	125	50	182	46	169	73	58	97	123	103	97	405	199	1727
104	128	57	175	53	145	43	54	82	162	173	139	573	179	1963
105	141	54	158	51	161	44	63	112	141	164	158	475	234	1956

106	172	38	118	46	142	65	61	94	99	118	142	438	218	1751
107	135	57	136	49	150	86	54	134	79	138	114	385	226	1743
108	126	38	177	46	149	111	54	114	149	115	123	510	224	1936
109	110	58	128	41	159	124	72	73	117	135	99	630	182	1928
110	112	51	157	50	142	58	59	50	114	139	85	589	188	1794
111	165	50	124	40	122	65	59	113	121	183	138	403	219	1802
112	129	43	165	46	109	73	63	60	140	173	74	632	216	1923
113	107	41	184	42	155	57	75	83	89	127	77	374	217	1628
114	171	44	156	39	204	119	47	138	112	108	111	589	228	2066
115	171	45	133	46	143	31	50	114	74	126	119	464	256	1772
116	196	39	133	50	188	88	54	85	115	105	96	598	182	1929
117	134	51	129	58	153	111	63	83	165	179	125	561	189	2001
118	148	51	142	46	211	23	74	56	159	105	175	503	180	1873
119	140	52	120	59	137	123	74	98	107	106	110	410	201	1737
120	128	56	181	40	105	53	66	95	134	91	141	415	180	1685
121	172	45	130	55	116	72	68	141	128	149	134	455	247	1912
122	115	42	177	38	206	109	67	101	70	88	139	579	198	1929
123	107	53	164	52	106	113	47	90	104	102	136	519	232	1825
124	136	45	140	42	129	112	77	93	78	126	94	560	220	1852
125	141	41	150	53	207	114	54	71	122	141	100	612	271	2077
126	120	39	121	48	210	81	62	128	152	176	150	603	195	2085
127	164	55	161	51	157	66	72	126	89	101	160	598	251	2051
128	111	53	144	38	140	121	59	128	70	100	155	605	240	1964
129	160	57	174	40	113	50	68	95	128	83	129	625	238	1960
130	126	52	163	43	192	62	51	62	134	97	93	543	242	1860
131	118	44	161	47	123	102	70	85	130	146	128	601	210	1965
132	145	40	140	59	152	123	48	97	111	103	172	436	185	1811
133	113	52	162	38	165	63	63	87	78	138	157	589	180	1885
134	180	51	151	54	148	88	66	97	104	152	73	445	218	1827
135	141	54	186	52	208	89	54	124	91	123	156	612	227	2117
136	175	38	135	48	233	93	74	112	136	172	110	399	211	1936
137	107	41	176	45	187	51	56	60	78	175	177	377	211	1741
138	116	40	118	43	139	90	71	143	121	103	161	460	246	1851
139	138	39	166	44	133	109	61	138	129	108	173	400	246	1884
140	127	58	117	43	122	110	60	111	141	154	78	491	236	1848
141	165	47	166	56	163	56	66	123	85	170	103	507	182	1889
142	113	49	145	57	194	55	61	118	164	141	131	455	231	1914

143	170	48	159	39	124	97	67	89	88	84	139	583	244	1931
144	149	51	154	52	130	123	68	117	89	106	160	549	242	1990
145	182	44	117	54	147	76	67	57	165	145	161	324	184	1723
146	175	52	150	54	141	85	59	55	87	143	147	332	213	1693
147	137	46	171	45	189	58	56	72	90	91	114	319	234	1622
148	109	47	129	48	140	62	50	142	142	112	83	546	186	1796
149	156	42	120	44	195	63	54	85	140	180	124	446	213	1862
150	151	42	134	40	162	87	54	63	116	82	78	547	234	1790
151	182	50	155	50	103	92	66	122	98	167	124	533	238	1980
152	126	42	150	43	103	65	47	87	122	92	147	614	226	1864
153	119	54	177	45	194	48	67	101	158	140	161	350	235	1849
154	113	55	161	57	235	116	75	96	85	175	78	602	219	2067
155	112	42	161	59	114	82	54	127	81	103	125	500	251	1811
156	142	56	155	57	163	51	56	50	103	172	110	585	221	1921
157	108	41	149	49	200	119	51	117	127	85	162	313	209	1730
158	121	57	170	42	211	64	56	86	106	130	152	405	211	1811
159	181	50	136	42	100	91	61	59	71	173	160	517	214	1855
160	167	45	134	53	198	49	61	131	74	160	169	345	249	1835
161	172	47	129	43	130	81	70	71	152	101	167	605	238	2006
162	117	49	174	57	106	104	61	142	162	86	84	560	177	1879
163	106	46	108	59	128	98	47	143	76	105	97	472	212	1697
164	176	58	178	40	177	118	66	114	152	122	170	516	204	2091
165	120	40	143	49	132	66	64	130	145	166	126	451	250	1882
166	157	53	132	47	121	52	58	75	106	112	160	565	245	1883
167	222	38	159	40	184	66	47	116	152	104	125	407	223	1883
168	157	40	154	50	200	58	59	109	80	93	111	489	188	1788
169	163	42	161	48	174	106	61	144	142	123	84	385	245	1878
170	173	49	147	46	107	98	64	144	70	172	144	608	254	2076
171	157	56	188	53	113	74	63	135	125	105	133	402	330	1934
172	128	59	164	49	137	79	59	81	104	95	150	497	222	1824
173	222	77	119	57	209	102	72	70	98	151	154	584	231	2146
174	187	53	170	69	184	90	53	108	130	152	99	354	301	1950
175	152	48	184	62	179	91	55	120	149	147	71	404	211	1873
176	205	71	164	55	199	76	63	122	124	116	144	506	210	2055
177	140	57	176	61	200	54	53	61	109	177	128	597	249	2062
178	209	75	178	66	134	96	51	93	127	173	73	405	281	1961
179	129	68	151	67	121	53	70	128	136	94	163	371	297	1848

180	223	56	167	47	140	86	60	69	138	143	122	534	181	1966
181	175	67	140	61	172	52	69	138	83	92	140	355	205	1749
182	139	61	124	54	120	104	58	120	149	170	117	378	207	1801
183	226	60	180	66	168	103	71	123	92	148	123	596	285	2241
184	168	64	151	42	209	62	62	121	140	101	151	419	271	1961
185	228	58	168	66	114	73	76	92	139	162	128	599	253	2156
186	212	48	184	66	199	111	47	111	146	132	113	349	280	1998
187	107	53	141	45	231	115	69	94	138	91	90	368	251	1793
188	201	63	171	62	209	104	51	72	134	178	109	533	195	2082
189	112	66	159	63	173	75	48	113	100	180	103	600	235	2027
190	144	41	156	66	152	120	54	116	160	126	141	603	352	2231
191	207	53	166	64	131	111	52	127	89	139	130	331	269	1869
192	172	68	159	47	219	125	72	67	150	163	138	369	328	2077
193	165	62	181	45	168	62	69	123	81	92	156	429	250	1883
194	147	62	177	54	116	50	73	78	101	158	102	539	214	1871
195	118	76	137	45	158	110	49	144	105	167	116	356	228	1809
196	153	63	164	48	183	79	77	140	80	98	124	475	202	1886
197	168	63	175	40	227	51	53	65	150	105	157	384	354	1992
198	225	69	127	63	184	110	77	78	107	158	128	415	307	2048
199	138	73	126	65	214	61	64	109	146	95	125	330	345	1891
200	113	61	175	49	142	95	74	110	145	177	139	540	254	2074
201	220	76	148	57	142	97	74	125	143	144	163	437	273	2099
202	106	41	123	44	158	102	58	122	84	164	85	569	217	1873
203	158	61	118	52	205	86	47	74	113	147	165	455	298	1979
204	181	66	138	57	219	62	54	114	130	167	148	428	289	2053
205	155	52	140	45	194	110	68	103	87	125	149	475	344	2047
206	206	53	161	65	223	56	65	70	119	140	76	314	254	1802
207	194	49	129	67	201	95	74	100	158	160	162	326	180	1895
208	149	64	120	63	201	59	61	86	108	141	161	569	332	2114
209	184	53	182	49	164	65	50	108	145	163	82	412	296	1953
210	134	63	138	58	117	67	48	77	83	143	157	464	180	1729
211	188	39	143	52	202	80	50	114	158	169	138	559	180	2072
212	160	47	127	66	227	52	67	74	85	121	151	556	263	1996
213	215	50	157	67	128	57	50	80	147	109	101	497	203	1861
214	183	72	172	56	200	51	56	91	157	150	155	540	212	2095
215	170	55	147	61	149	116	69	79	104	98	88	482	227	1845
216	131	38	140	46	208	60	73	139	95	148	131	580	320	2109

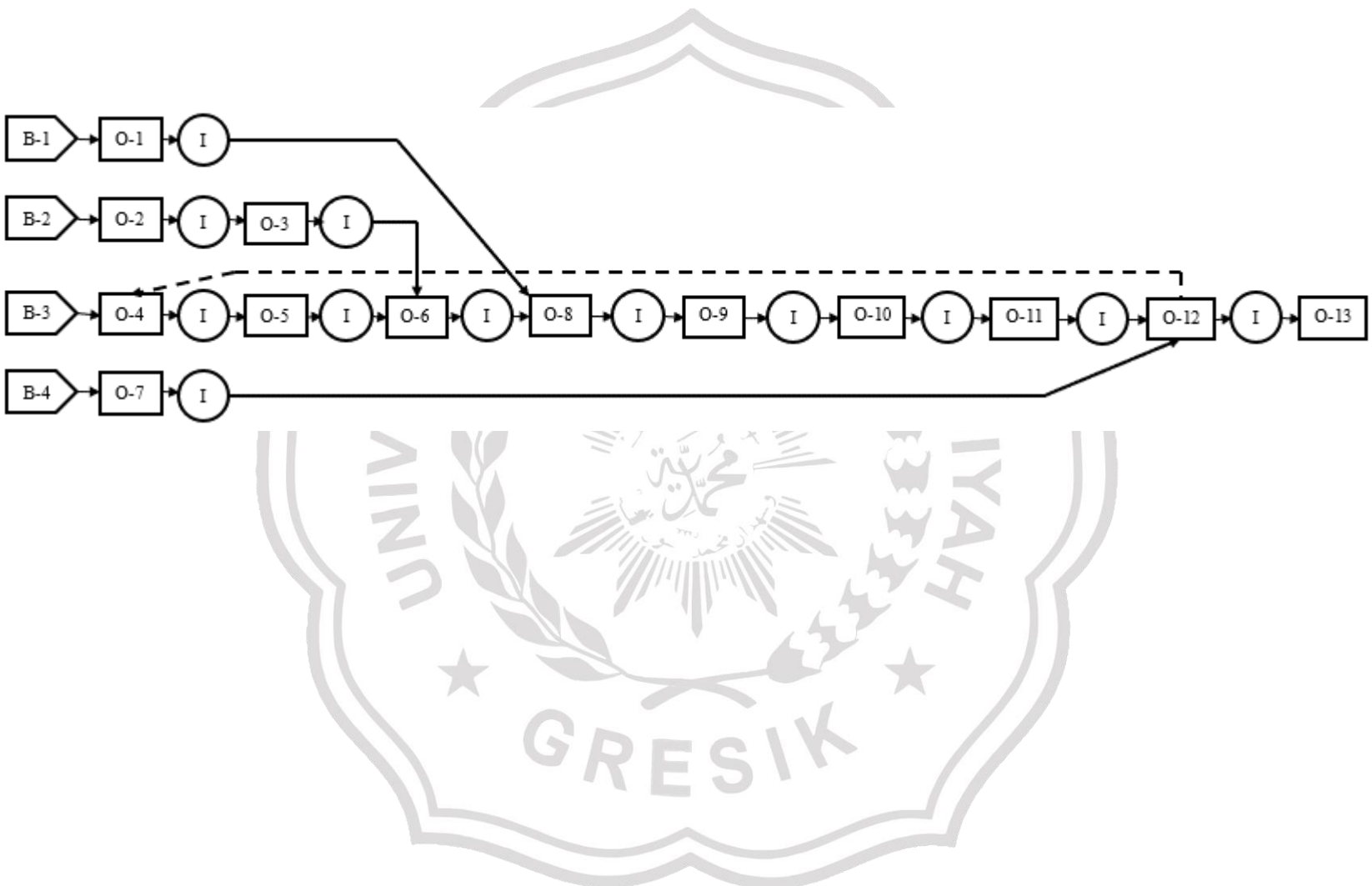
217	229	43	147	57	153	62	74	121	104	96	141	335	335	1897
218	191	76	184	53	165	65	70	67	102	148	80	557	186	1944
219	129	70	129	52	231	70	59	80	92	168	90	445	199	1814
220	163	70	173	46	229	69	48	101	118	154	117	528	319	2135
221	194	-	122	53	141	94	72	134	109	156	116	526	283	2078
222	194	76	163	58	203	67	47	86	103	150	150	349	-	1982
223	232	66	147	60	208	116	50	94	108	146	130	480	301	2138
224	192	53	184	56	169	127	65	68	137	105	108	443	263	1970
225	122	52	143	61	124	114	77	88	137	126	100	616	220	1980
226	161	49	191	43	118	69	50	125	144	94	108	534	229	1915
227	134	50	143	61	205	63	65	111	92	109	159	342	342	1876
228	143	67	166	43	228	59	53	107	86	173	146	329	180	1780
229	154	69	151	49	140	115	69	139	113	126	141	551	195	2012
230	220	43	173	57	219	94	74	68	155	173	75	330	263	1944
231	214	60	189	66	164	64	50	74	94	101	171	616	187	2050
232	214	65	185	66	113	95	59	127	91	158	164	337	227	1901
233	153	40	156	64	233	69	68	83	154	99	126	461	220	1926
234	115	68	125	50	142	51	53	112	153	138	144	486	325	1962
235	120	53	151	60	133	102	62	128	89	147	102	622	354	2123
236	197	78	121	58	185	54	75	83	118	97	126	523	345	2060
237	114	59	138	47	120	120	67	132	98	131	161	477	191	1855
238	107	56	126	61	186	119	76	105	116	142	146	363	194	1797
239	205	74	172	55	117	105	60	90	80	170	130	388	221	1867
240	214	59	160	69	141	122	73	137	118	173	109	421	352	2148
241	230	46	171	54	131	86	66	77	113	143	122	321	284	1844
242	139	57	130	60	131	54	75	73	105	111	117	318	270	1640
243	215	-	186	41	190	63	50	78	142	95	81	617	237	2064
244	191	59	149	55	174	73	72	88	97	123	109	473	193	1856
245	119	61	127	43	157	99	53	97	107	123	95	503	327	1911
246	164	78	177	62	153	52	57	64	156	107	153	613	258	2094
247	154	45	132	42	161	93	50	128	96	110	130	340	242	1723
248	227	75	134	52	149	52	66	117	114	104	148	352	214	1804
249	182	76	188	42	113	50	52	95	145	130	75	623	189	1960
250	141	57	190	54	221	68	73	118	100	130	83	447	187	1869
251	187	51	182	42	225	81	50	61	119	168	164	525	261	2116
252	128	75	127	55	232	55	62	121	92	180	155	427	223	1932
253	163	77	121	59	223	76	77	87	143	142	141	407	238	1954

254	193	77	183	68	204	101	51	115	112	177	83	457	211	2032
255	134	76	181	45	125	54	66	88	98	133	91	481	291	1863
256	195	62	166	54	173	93	49	68	139	124	135	446	224	1928
257	166	76	173	64	219	103	69	61	121	160	150	371	183	1916
258	200	73	173	55	166	85	75	97	138	92	118	398	335	2005
259	157	43	188	55	210	93	70	122	95	97	160	490	273	2053
260	198	53	162	60	169	95	47	133	123	155	159	419	346	2119
261	206	41	141	67	123	123	55	128	83	170	137	526	298	2098
262	153	70	152	40	188	61	54	110	120	144	154	581	193	2020
263	196	46	118	64	126	89	75	132	150	114	86	394	206	1796
264	123	70	181	44	161	60	66	87	125	177	134	528	270	2026
265	196	41	185	49	168	127	55	61	114	92	122	591	224	2025
266	184	64	188	65	202	66	60	87	102	97	154	557	183	2009
267	131	45	155	57	176	72	56	71	148	164	163	618	323	2179
268	197	62	159	58	126	69	68	136	107	176	143	439	346	2086
269	141	71	148	57	217	77	58	83	82	95	135	603	334	2101
270	201	66	134	56	126	83	72	107	130	99	128	528	329	2059
271	163	63	159	64	163	100	76	119	113	169	144	604	324	2261
272	230	44	118	45	124	61	70	135	87	106	80	317	248	1665
273	108	75	177	69	124	73	76	117	102	134	166	513	251	1985
274	128	45	182	43	172	58	52	79	104	94	91	484	182	1714
275	226	53	140	61	126	109	76	78	120	127	117	516	-	2101
276	185	48	183	50	218	71	50	64	151	95	169	349	303	1936
277	158	63	125	60	197	124	76	70	152	136	158	399	225	1943
278	210	62	174	57	194	125	72	115	102	118	125	485	203	2042
279	202	68	148	43	128	55	52	145	117	158	167	508	340	2131
280	214	64	163	54	150	63	76	65	90	107	152	357	223	1778
281	146	76	182	53	193	73	56	60	152	102	71	611	320	2095
282	118	65	188	46	161	119	55	81	83	124	113	520	295	1968
283	186	38	190	50	224	58	51	103	135	95	164	586	338	2218
284	178	75	122	55	125	108	53	66	97	139	107	484	338	1947
285	173	52	157	60	212	58	70	127	93	161	170	398	339	2070
286	160	40	126	61	219	95	58	115	154	166	72	339	236	1841
287	146	74	166	59	187	96	50	129	128	126	148	392	184	1885
288	135	77	124	50	193	85	74	60	115	123	129	531	350	2046
289	135	38	130	41	209	101	48	68	105	121	156	432	351	1935
290	132	75	156	43	152	106	72	123	160	114	153	388	205	1879

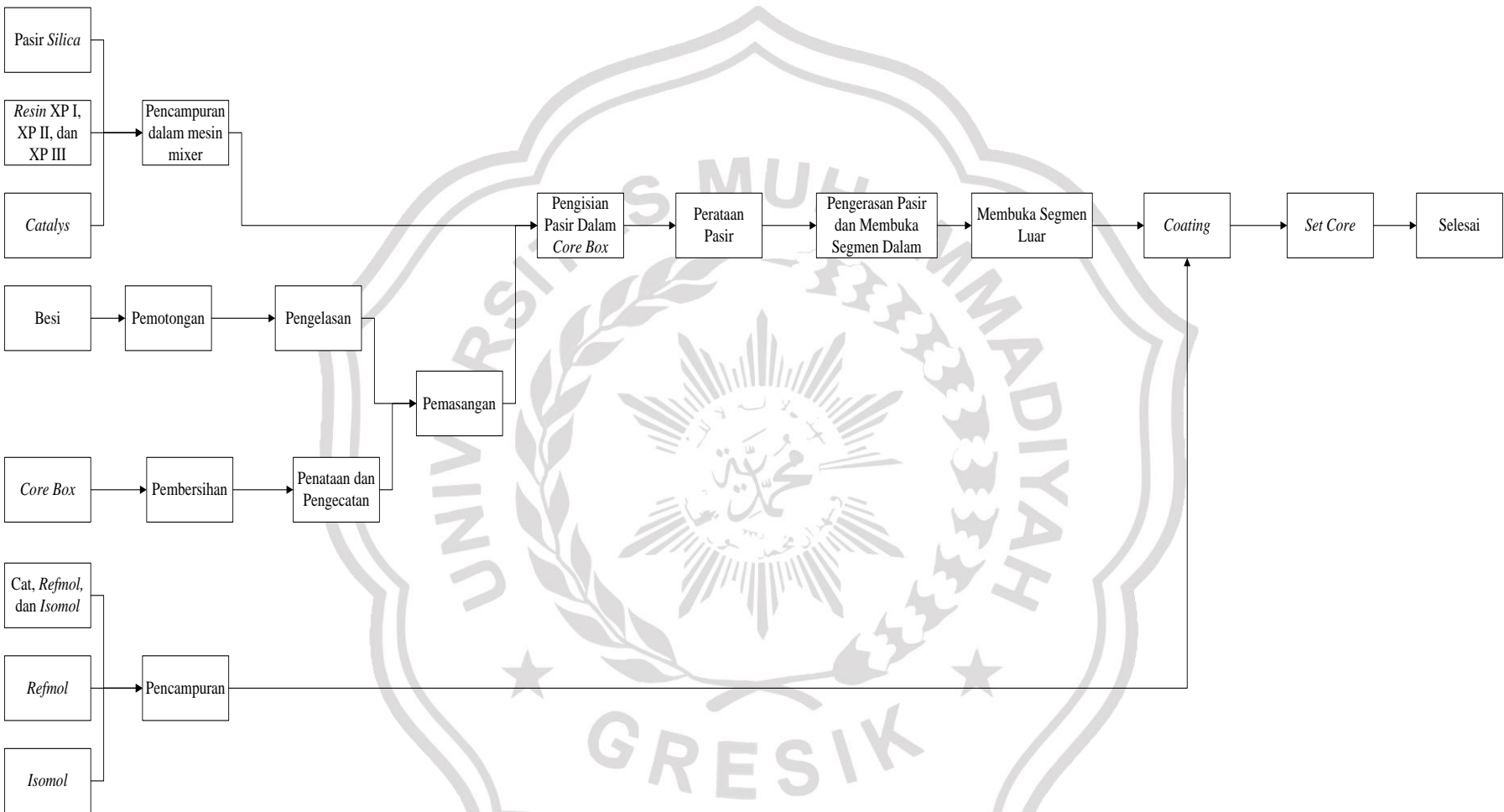
291	163	58	173	43	221	108	69	107	111	120	140	369	285	1967
292	193	63	173	67	154	88	56	87	116	115	143	361	256	1872
293	168	49	142	43	158	115	60	83	137	128	160	454	243	1940
294	172	48	171	44	227	82	58	124	90	135	135	513	316	2115
295	222	50	118	42	125	126	49	145	152	165	115	380	339	2028
296	214	62	187	57	135	80	65	60	103	157	136	316	234	1806
297	154	44	130	43	164	120	57	76	100	127	84	558	308	1965
298	210	61	138	53	156	122	63	74	158	129	144	317	200	1825
299	121	51	145	56	193	114	70	84	111	92	83	512	293	1925
300	117	48	186	55	149	60	72	141	114	100	138	399	269	1848



ACTIVITY CYCLE DIAGRAM

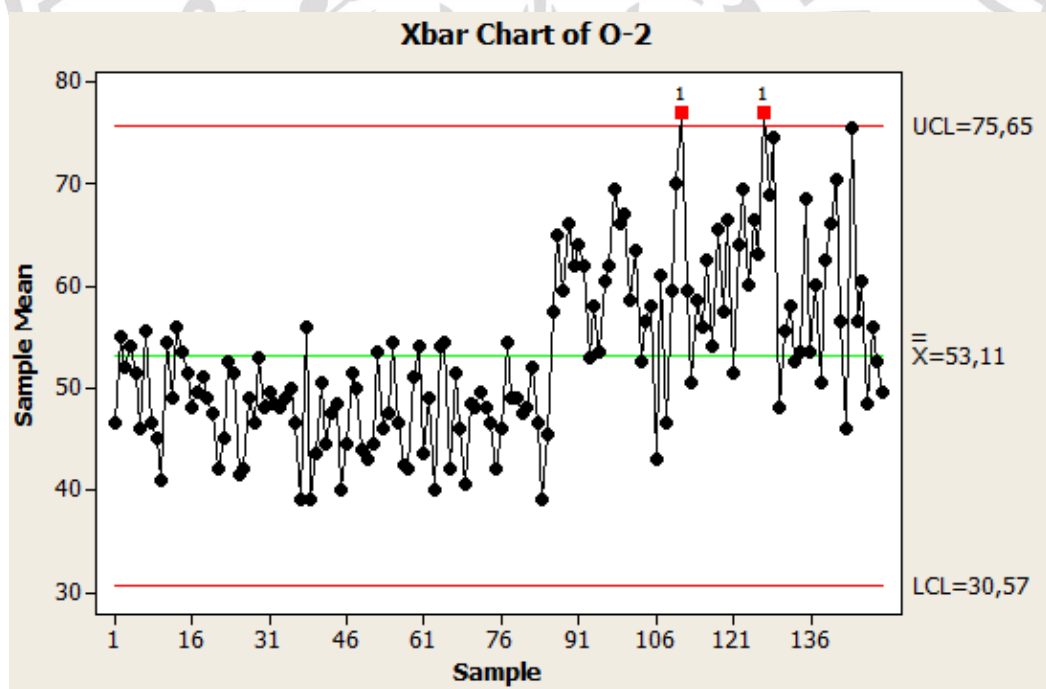
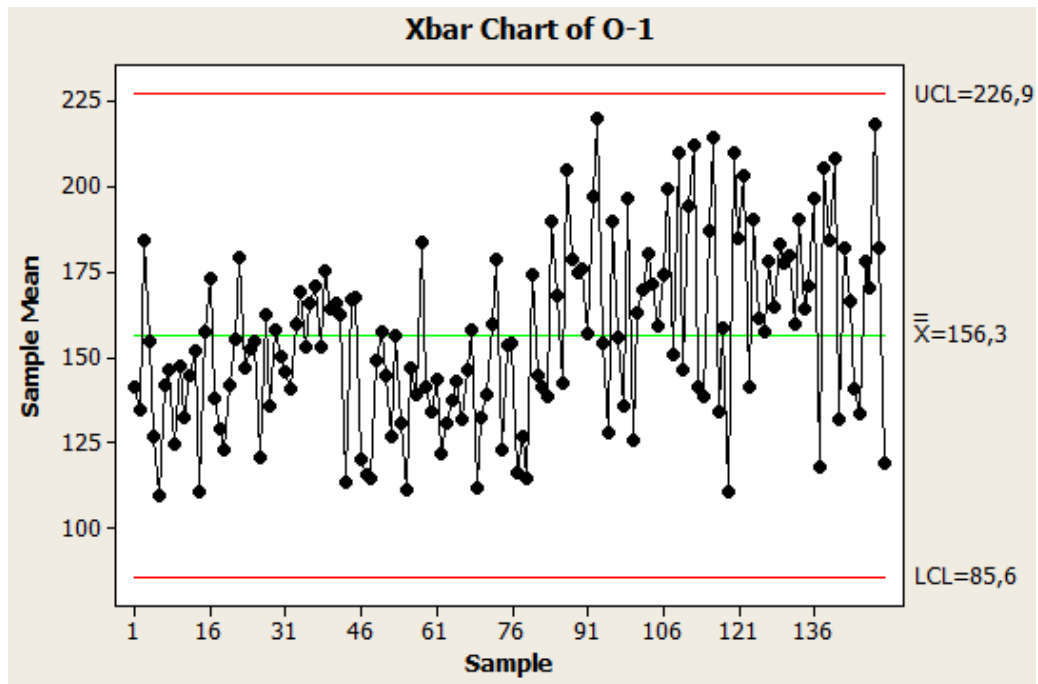


MODEL KONSEPTUAL KONDISI AWAL

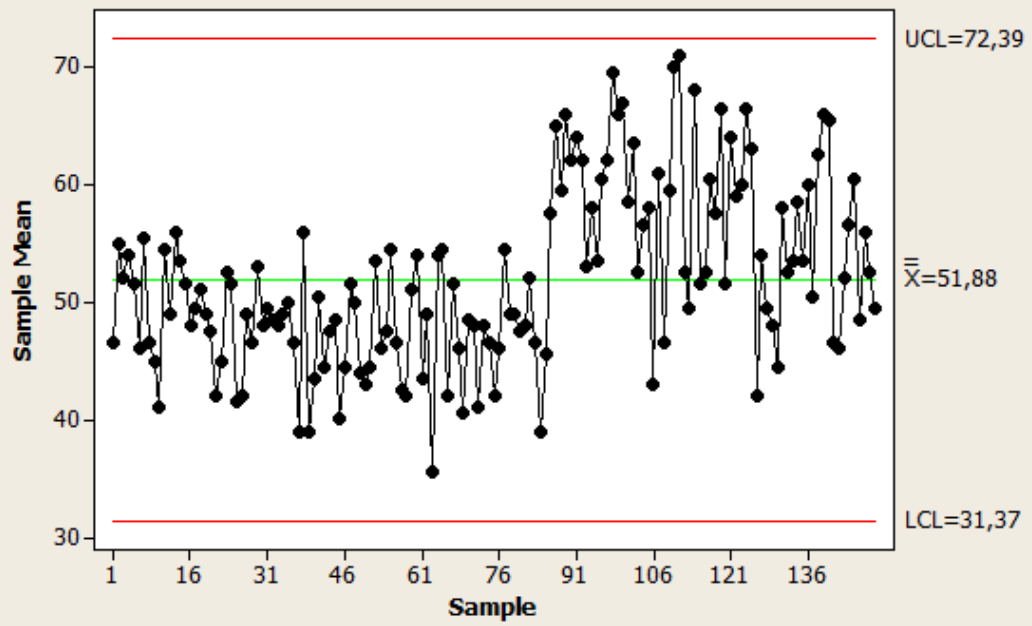


LAMPIRAN 5**HASIL PENGOLAHAN DATA – UJI KESERAGAMAN DATA**

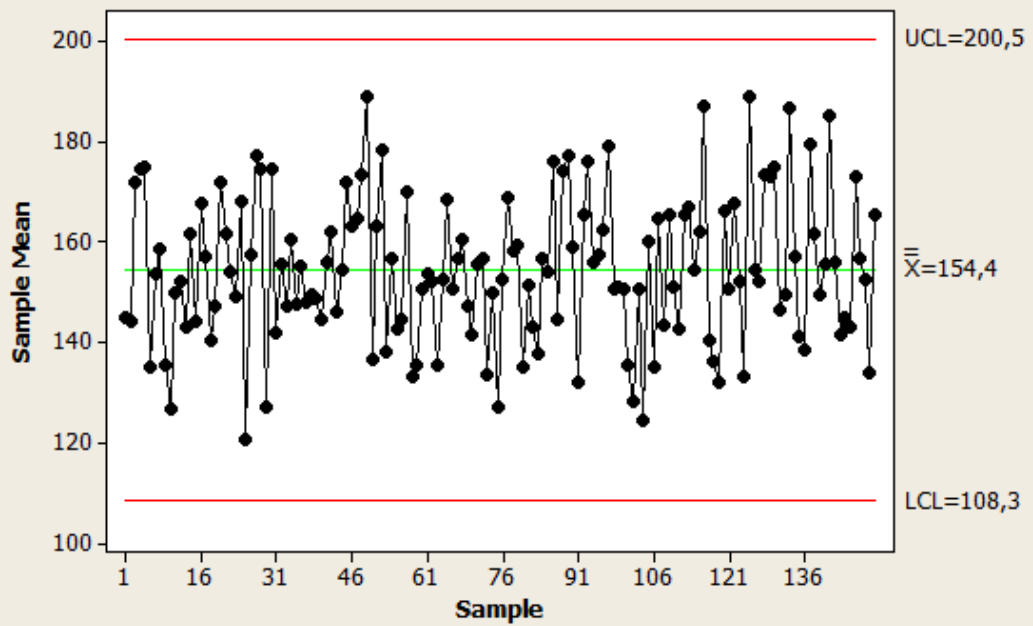
No. Operasi	σ	BKA	BKB	Keterangan
O-1	33,304158	226,9	85,6	tidak ada data terbang
O-2	9,670478	72,39	31,37	tidak ada data terbang
O-3	21,745118	200,5	108,3	tidak ada data terbang
O-4	7,7268906	67,64	34,86	tidak ada data terbang
O-5	36,156962	240,8	87,4	tidak ada data terbang
O-6	24,570408	133,8	29,6	tidak ada data terbang
O-7	8,9755297	80,82	42,74	tidak ada data terbang
O-8	26,329826	154	42,3	tidak ada data terbang
O-9	26,382715	172,8	60,9	tidak ada data terbang
O-10	30,970209	194,5	63,1	tidak ada data terbang
O-11	30,564313	191,3	61,7	tidak ada data terbang
O-12	96,131534	678,9	271	tidak ada data terbang
O-13	25,52388	285	176,7	tidak ada data terbang

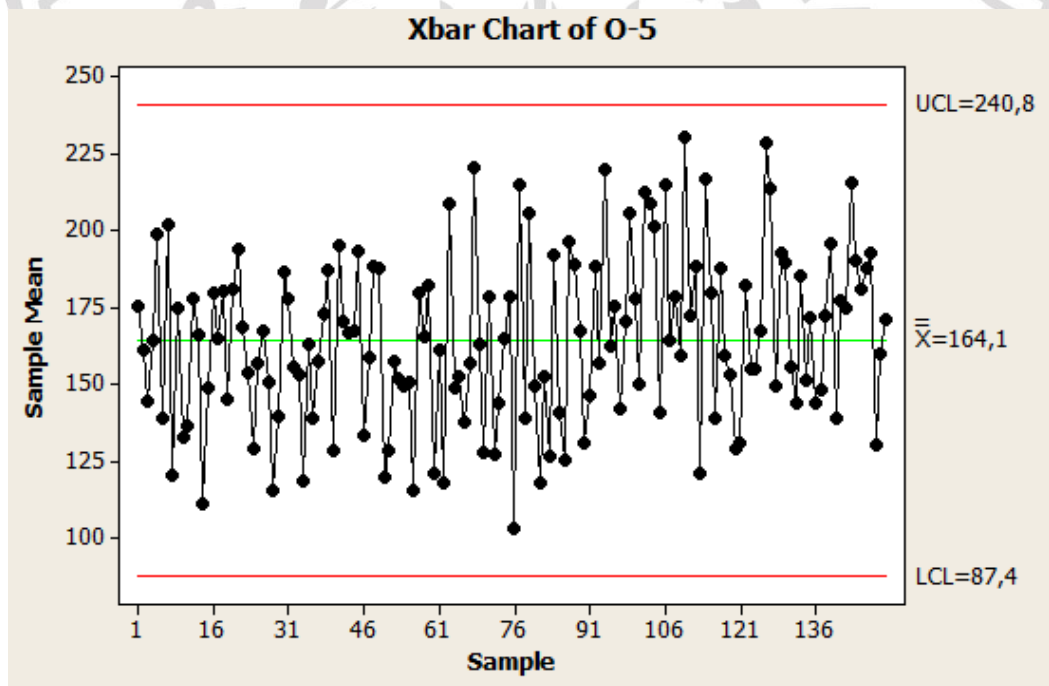
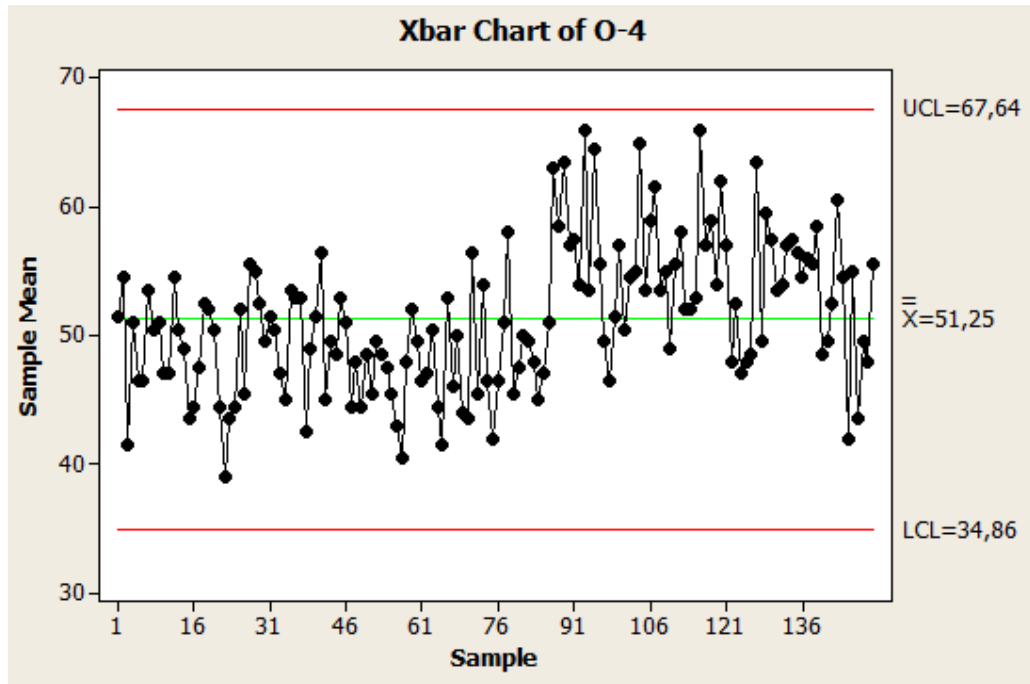


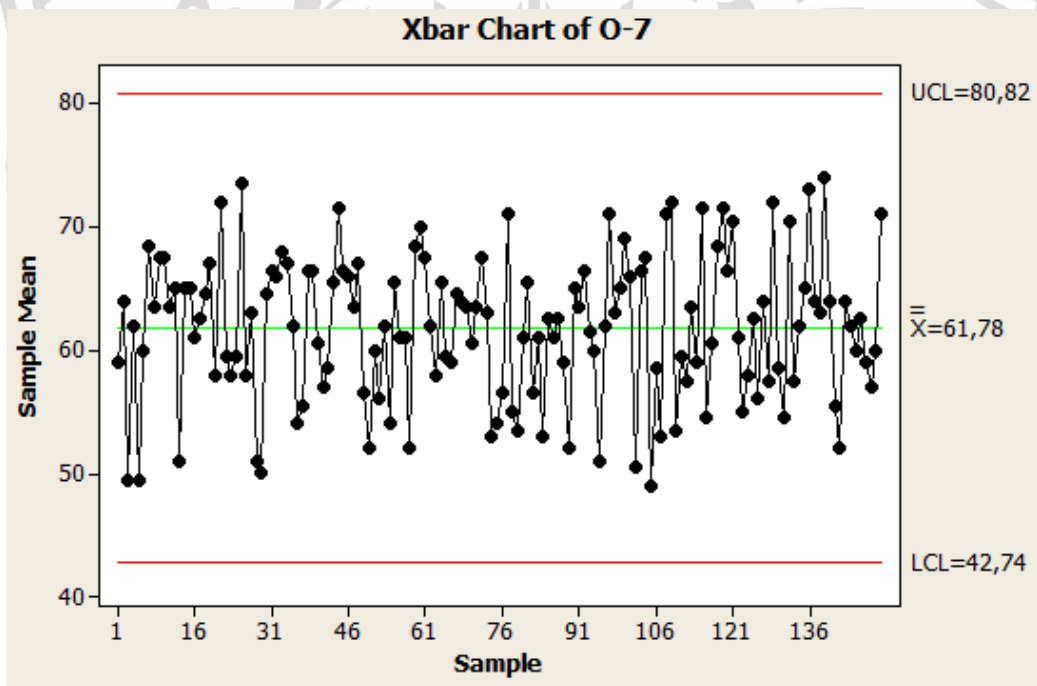
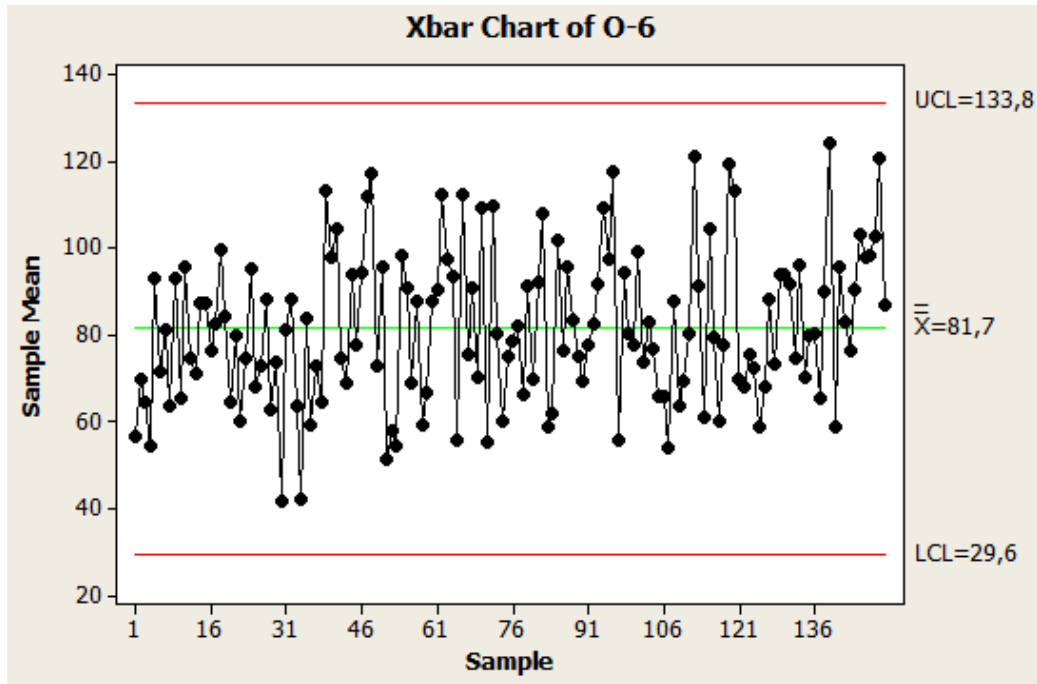
Xbar Chart of Operasi 2



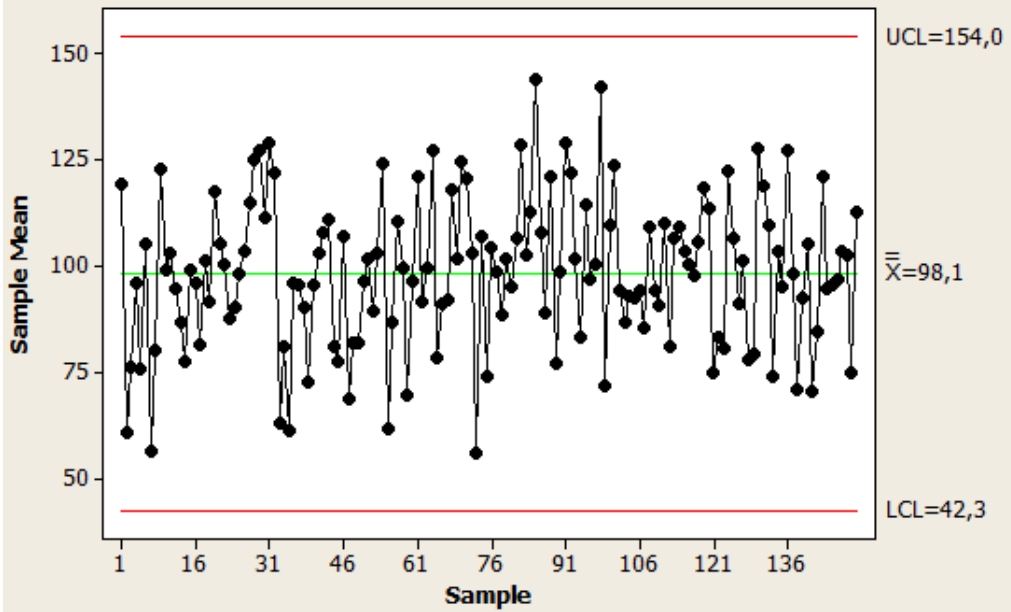
Xbar Chart of O-3



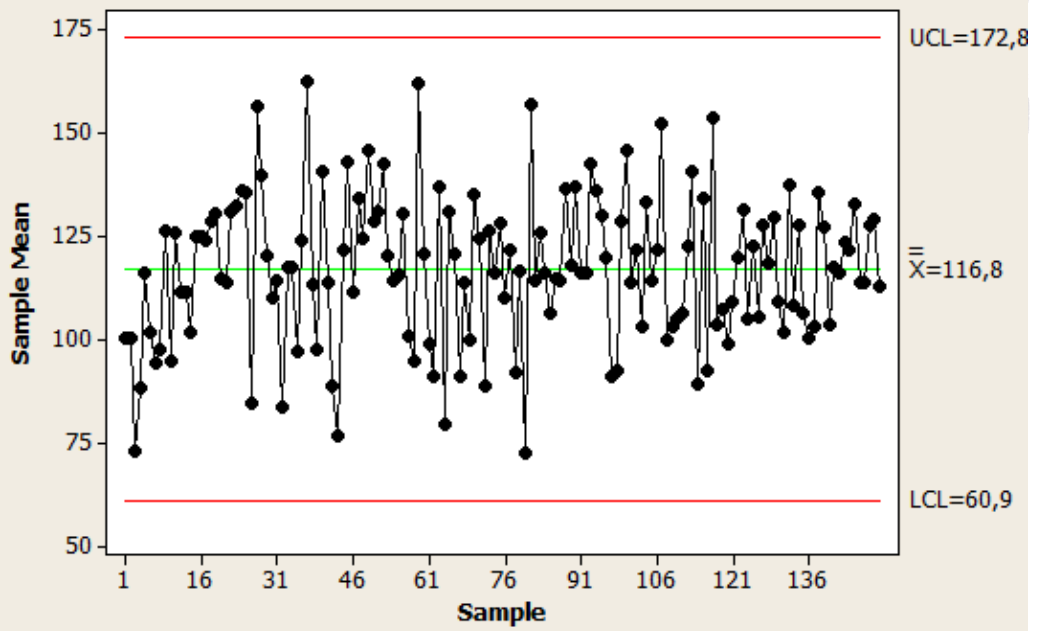


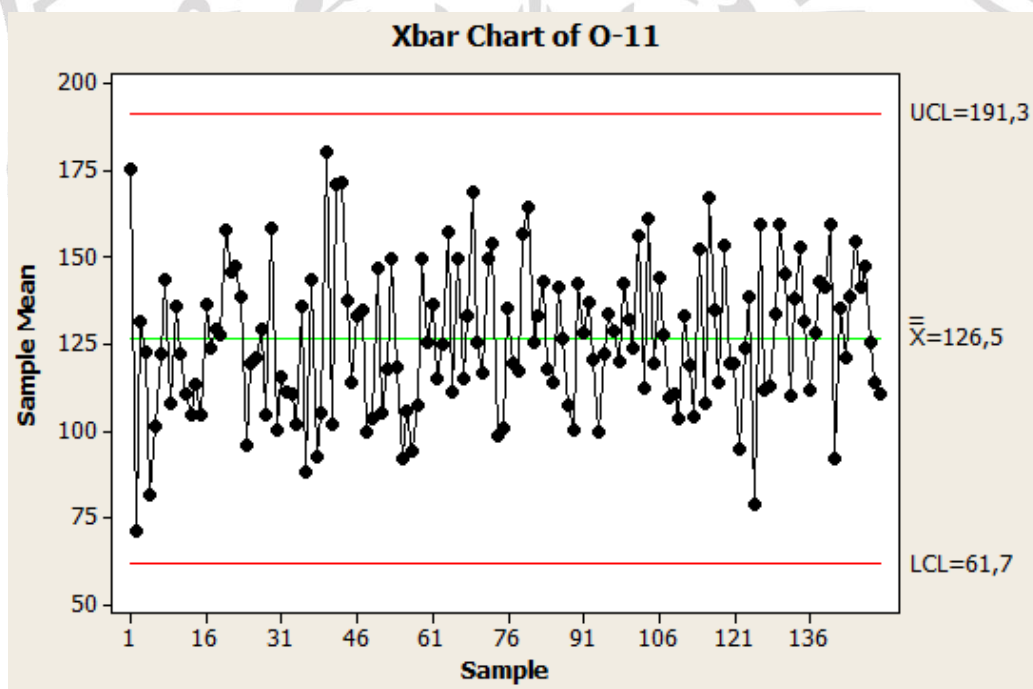
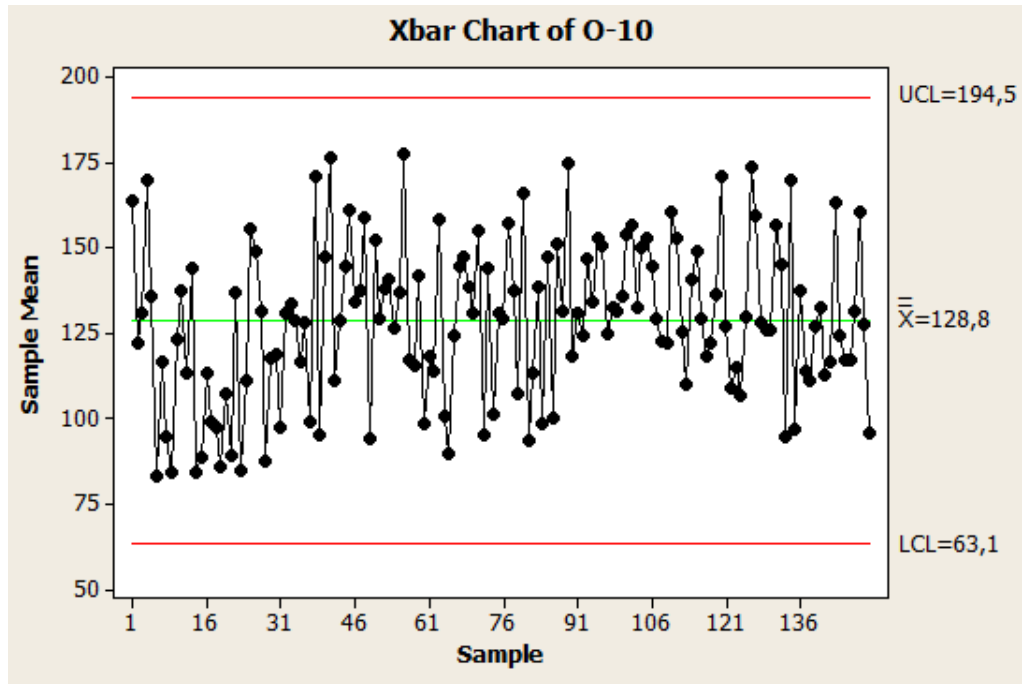


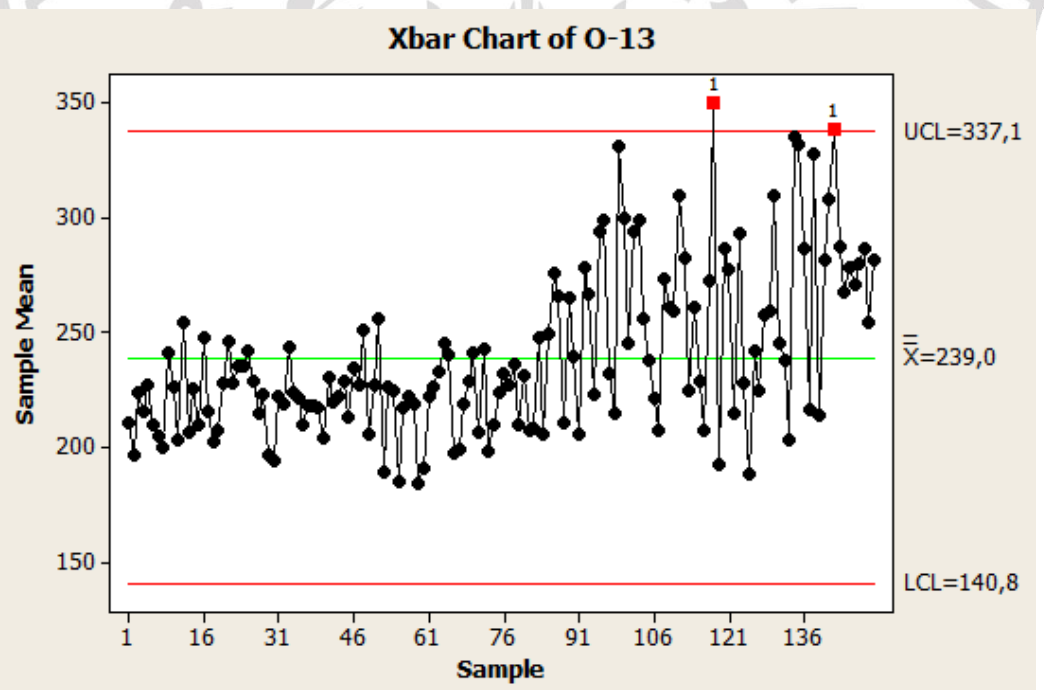
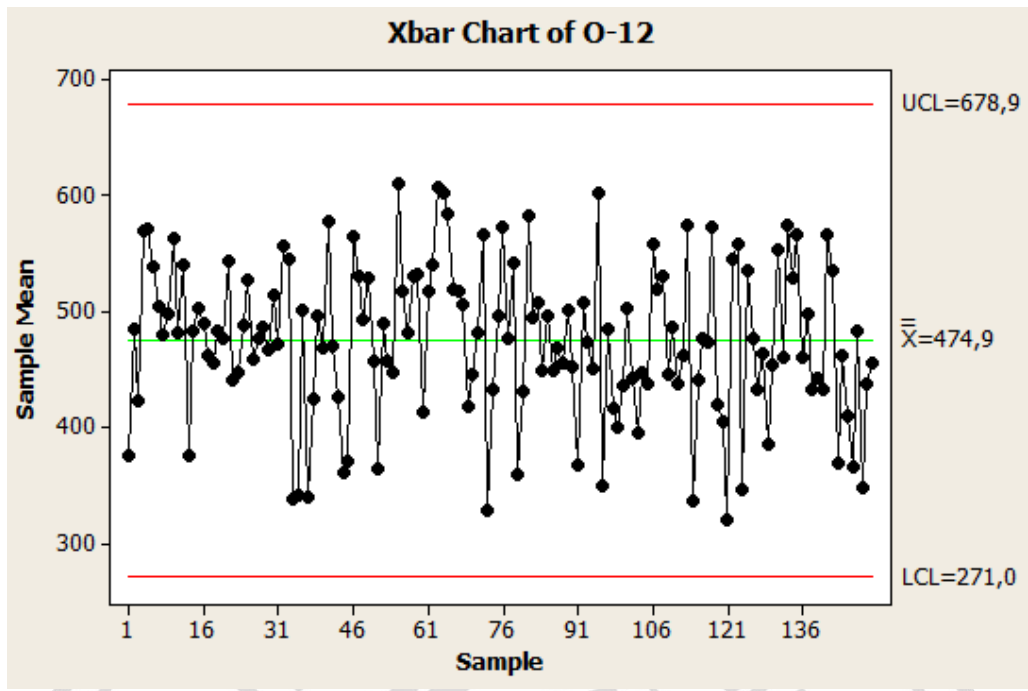
Xbar Chart of O-8



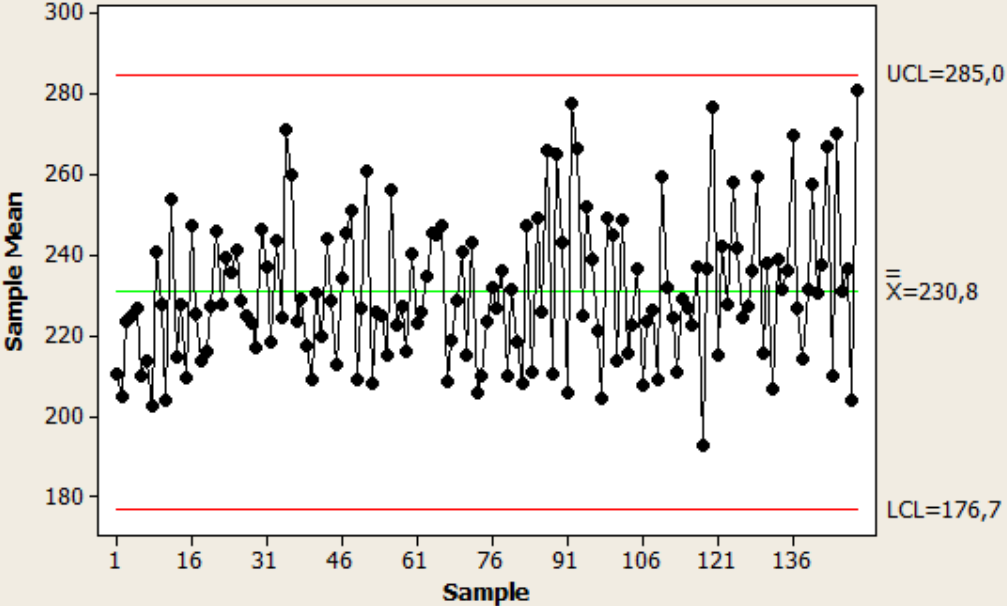
Xbar Chart of O-9

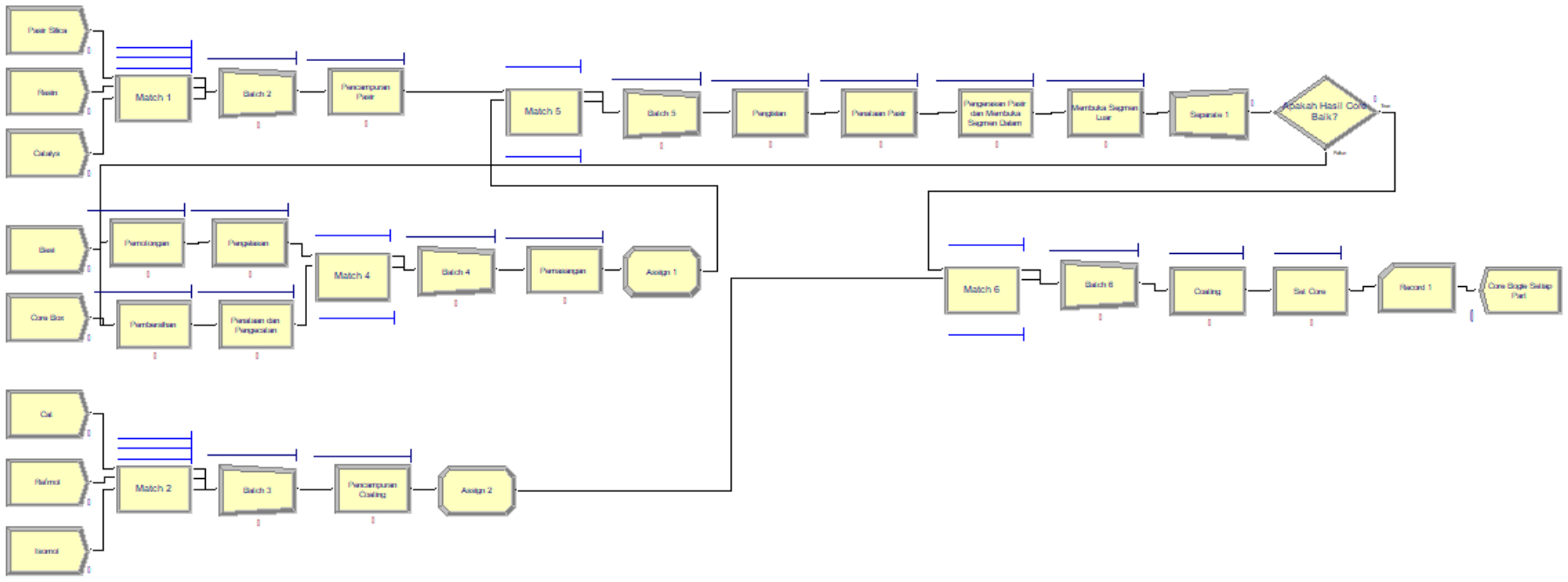






Xbar Chart of Operasi 13





LAMPIRAN 7

HASIL SUMMARY SIMULASI KONDISI AWAL

ARENA Simulation Results
Devi Indah - License: 7328734345

Output Summary for 20 Replications

Project: Unnamed Project
Analyst: Rockwell Automation

Run execution date : 1/15/2020
Model revision date: 1/15/2020

OUTPUTS

Identifier	Average	Half-width	Minimum	Maximum	# Replications
Entity 1.NumberIn	33.450	.55739	31.000	35.000	20
Entity 1.NumberOut	25.000	2.2295	16.000	32.000	20
Entity 2.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 2.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity 3.NumberIn	18.000	.00000	18.000	18.000	20
Entity 3.NumberOut	12.900	1.1147	8.0000	16.000	20
Entity 4.NumberIn	481.00	.00000	481.00	481.00	20
Entity 4.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity 5.NumberIn	662.70	1.4807	656.00	668.00	20
Entity 5.NumberOut	19.350	1.6721	12.000	24.000	20
Entity 6.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 6.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity 7.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 7.NumberOut	6.4500	.55739	4.0000	8.0000	20
Coating a.NumberSeized	.00000	.00000	.00000	.00000	20
Coating a.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Tatakan Kayu.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Tatakan Kayu.ScheduledUtilization	.03260	.00137	.02735	.03816	20
Coating spray dan manual.NumberSeized	6.4500	.55739	4.0000	8.0000	20
Coating spray dan manual.ScheduledUtilizat	.10696	.01015	.06644	.14228	20
Zipslip.NumberSeized	174.70	1.4807	168.00	180.00	20
Zipslip.ScheduledUtilization	.99830	9.9428E-05	.99773	.99863	20
Assembly Manual.NumberSeized	6.4500	.55739	4.0000	8.0000	20
Assembly Manual.ScheduledUtilization	.05344	.00582	.03276	.07478	20
Manual.NumberSeized	181.70	1.4807	175.00	187.00	20
Manual.ScheduledUtilization	.52695	.00844	.49279	.55297	20
asa.NumberSeized	.00000	.00000	.00000	.00000	20
asa.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Crane.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Crane.ScheduledUtilization	.03507	.00140	.03071	.04378	20
Mesin Mixer dan Core Box.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Mesin Mixer dan Core Box.ScheduledUtilizat	.02620	.00141	.02090	.03238	20
Mesin Potong.NumberSeized	480.65	.22903	480.00	481.00	20
Mesin Potong.ScheduledUtilization	.87823	.00232	.87027	.88676	20
Mesin Mixer Pasir.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Pasir.ScheduledUtilization	.04466	.00164	.03703	.04972	20
Mesin Mixer Cat.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Cat.ScheduledUtilization	.01709	3.1837E-04	.01560	.01834	20
Selang Angin.NumberSeized	482.30	.62790	480.00	485.00	20
Selang Angin.ScheduledUtilization	.85376	.00241	.84497	.86582	20
Mesin Las.NumberSeized	187.50	.95431	183.00	191.00	20
Mesin Las.ScheduledUtilization	.99810	1.8296E-04	.99713	.99859	20
System.NumberOut	6.4500	.55739	4.0000	8.0000	20

Simulation run time: 0.82 minutes.
Simulation run complete.

LAMPIRAN 9

HASIL SUMMARY SIMULASI *LARGEST CANDIDATE RULE*

Output Summary for 20 Replications

Project: Unnamed Project
Analyst: Rockwell Automation

Run execution date : 1/15/2020
Model revision date: 1/15/2020

OUTPUTS

Identifier	Average	Half-width	Minimum	Maximum	# Replications
Entity 1.NumberIn	27.000	.00000	27.000	27.000	20
Entity 1.NumberOut	16.000	.00000	16.000	16.000	20
Entity 2.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 2.NumberOut	.00000	.00000	.00000	.00000	20
Entity 3.NumberIn	18.000	.00000	18.000	18.000	20
Entity 3.NumberOut	8.0000	.00000	8.0000	8.0000	20
Entity 4.NumberIn	481.00	.00000	481.00	481.00	20
Entity 4.NumberOut	479.65	.27479	478.00	480.00	20
Entity 5.NumberIn	481.00	.00000	481.00	481.00	20
Entity 5.NumberOut	479.75	.20792	479.00	480.00	20
Entity 6.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 6.NumberOut	8.0000	.00000	8.0000	8.0000	20
Entity 7.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 7.NumberOut	8.0000	.00000	8.0000	8.0000	20
Entity A.NumberIn	479.65	.27479	478.00	480.00	20
Entity A.NumberOut	185.65	1.0103	181.00	190.00	20
Entity B.NumberIn	481.90	.64242	480.00	484.00	20
Entity B.NumberOut	174.70	1.3674	169.00	180.00	20
Entity C.NumberIn	8.0000	.00000	8.0000	8.0000	20
Entity C.NumberOut	8.0000	.00000	8.0000	8.0000	20
Entity D.NumberIn	185.65	1.0103	181.00	190.00	20
Entity D.NumberOut	.00000	.00000	.00000	.00000	20
Entity E.NumberIn	357.40	2.7348	346.00	368.00	20
Entity E.NumberOut	2.1500	.66664	.00000	5.0000	20
Entity F.NumberIn	8.0000	.00000	8.0000	8.0000	20
Entity F.NumberOut	.00000	.00000	.00000	.00000	20
Coating a.NumberSeized	.00000	.00000	.00000	.00000	20
Coating a.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Tatakan Kayu.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Tatakan Kayu.ScheduledUtilization	.03375	8.5470E-04	.03029	.03708	20
Coating spray dan manual.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Coating spray dan manual.ScheduledUtilizat	.13366	.00408	.11340	.14984	20
Zipslip.NumberSeized	175.70	1.3674	170.00	181.00	20
Zipslip.ScheduledUtilization	.99830	9.9428E-05	.99773	.99863	20
Assembly Manual.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Assembly Manual.ScheduledUtilization	.06685	.00184	.06197	.07540	20
Manual.NumberSeized	182.70	1.3674	177.00	188.00	20
Manual.ScheduledUtilization	.53473	.00744	.50496	.57524	20
asa.NumberSeized	.00000	.00000	.00000	.00000	20
asa.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Crane.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Crane.ScheduledUtilization	.03619	.00166	.03038	.04145	20
Mesin Mixer dan Core Box.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Mesin Mixer dan Core Box.ScheduledUtilizat	.02691	.00114	.02329	.03131	20
Mesin Potong.NumberSeized	480.65	.27479	479.00	481.00	20
Mesin Potong.ScheduledUtilization	.87961	.00443	.86083	.89293	20
Mesin Mixer Pasir.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Pasir.ScheduledUtilization	.04462	.00167	.03866	.05277	20
Mesin Mixer Cat.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Cat.ScheduledUtilization	.01738	4.9928E-04	.01548	.01959	20
Selang Angin.NumberSeized	482.90	.64242	481.00	485.00	20
Selang Angin.ScheduledUtilization	.85749	.00348	.84470	.87032	20
Mesin Las.NumberSeized	186.65	1.0103	182.00	191.00	20
Mesin Las.ScheduledUtilization	.99810	1.8296E-04	.99713	.99859	20
System.NumberOut	8.0000	.00000	8.0000	8.0000	20

Simulation run time: 1.02 minutes.
Simulation run complete.

LAMPIRAN 10

HASIL SUMMARY SIMULASI RANKED POSITIONAL WEIGHT

ARENA Simulation Results
Devi Indah - License: 7328734345

Output Summary for 20 Replications

Project: Unnamed Project Run execution date : 1/15/2020
Analyst: Rockwell Automation Model revision date: 1/15/2020

OUTPUTS					
Identifier	Average	Half-width	Minimum	Maximum	# Replications
Entity 1.NumberIn	49.450	.55739	47.000	51.000	20
Entity 1.NumberOut	42.800	2.2295	33.000	49.000	20
Entity 2.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 2.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity 3.NumberIn	18.000	.00000	18.000	18.000	20
Entity 3.NumberOut	14.450	.55739	12.000	16.000	20
Entity 4.NumberIn	481.00	.00000	481.00	481.00	20
Entity 4.NumberOut	186.50	.95431	182.00	190.00	20
Entity 5.NumberIn	481.00	.00000	481.00	481.00	20
Entity 5.NumberOut	479.75	.28792	479.00	480.00	20
Entity 6.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 6.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity 7.NumberIn	9.0000	.00000	9.0000	9.0000	20
Entity 7.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity A.NumberIn	.00000	.00000	.00000	.00000	20
Entity A.NumberOut	.00000	.00000	.00000	.00000	20
Entity B.NumberIn	186.50	.95431	182.00	190.00	20
Entity B.NumberOut	6.4500	.55739	4.0000	8.0000	20
Entity C.NumberIn	663.00	1.6908	656.00	669.00	20
Entity C.NumberOut	20.900	1.1147	16.000	24.000	20
Entity D.NumberIn	15.450	.55739	13.000	17.000	20
Entity D.NumberOut	12.900	1.1147	8.0000	16.000	20
Coating a.NumberSeized	.00000	.00000	.00000	.00000	20
Coating a.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Tatakan Kayu.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Tatakan Kayu.ScheduledUtilization	.03260	.00137	.02735	.03816	20
Coating spray dan manual.NumberSeized	6.4500	.55739	4.0000	8.0000	20
Coating spray dan manual.ScheduledUtilizat	.10696	.01015	.06644	.14228	20
Zipslip.NumberSeized	174.70	1.4807	168.00	180.00	20
Zipslip.ScheduledUtilization	.99830	9.9428E-05	.99773	.99863	20
Assembly Manual.NumberSeized	6.4500	.55739	4.0000	8.0000	20
Assembly Manual.ScheduledUtilization	.05344	.00582	.03276	.07478	20
Manual.NumberSeized	181.70	1.4807	175.00	187.00	20
Manual.ScheduledUtilization	.52695	.00844	.49279	.55297	20
asa.NumberSeized	.00000	.00000	.00000	.00000	20
asa.ScheduledUtilization	.00000	.00000	.00000	.00000	20
Crane.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Crane.ScheduledUtilization	.03507	.00140	.03071	.04378	20
Mesin Mixer dan Core Box.NumberSeized	8.0000	.00000	8.0000	8.0000	20
Mesin Mixer dan Core Box.ScheduledUtilizat	.02620	.00141	.02090	.03238	20
Mesin Potong.NumberSeized	480.65	.22903	480.00	481.00	20
Mesin Potong.ScheduledUtilization	.87823	.00232	.87027	.88676	20
Mesin Mixer Pasir.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Pasir.ScheduledUtilization	.04466	.00164	.03703	.04972	20
Mesin Mixer Cat.NumberSeized	9.0000	.00000	9.0000	9.0000	20
Mesin Mixer Cat.ScheduledUtilization	.01709	3.1837E-04	.01560	.01834	20
Selang Angin.NumberSeized	482.30	.62790	480.00	485.00	20
Selang Angin.ScheduledUtilization	.85376	.00241	.84497	.86582	20
Mesin Las.NumberSeized	187.50	.95431	183.00	191.00	20
Mesin Las.ScheduledUtilization	.99810	1.8296E-04	.99713	.99859	20
System.NumberOut	6.4500	.55739	4.0000	8.0000	20

Simulation run time: 0.82 minutes.
Simulation run complete.