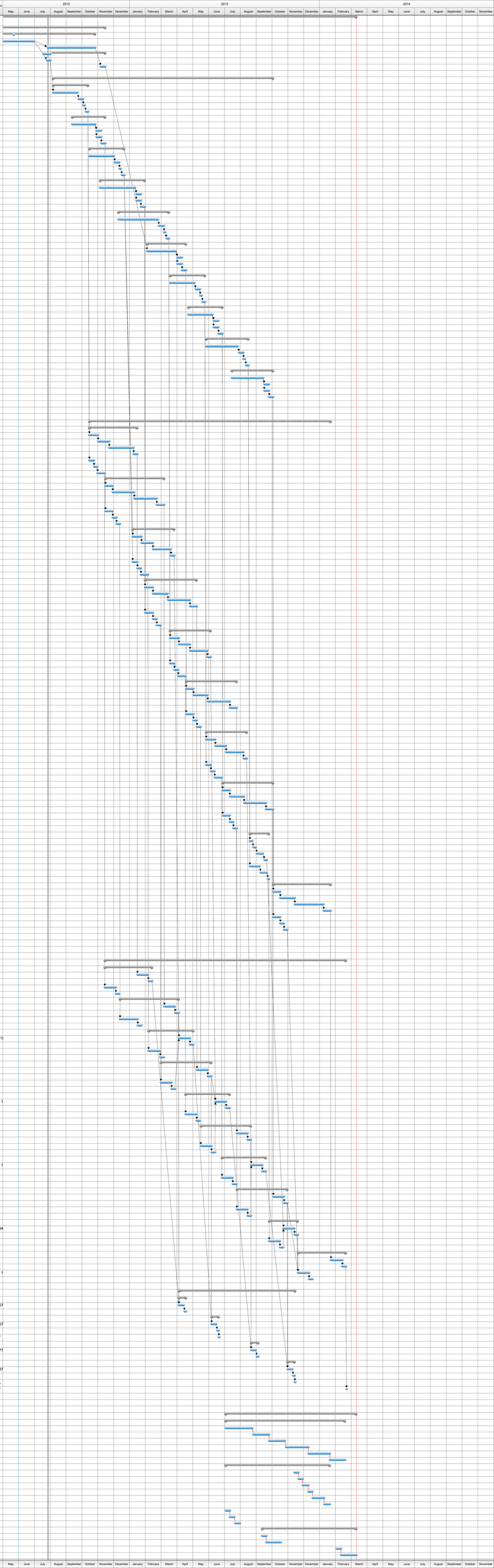Activity Name	Duration (Days)	Start Date	Finish Date	Predecessors
RE4 Project	**503.00**	**10.20.2011**	**10.3.2014**	
HPL	**280.00**	**20.10.2011**	**14.11.2012**	
HPL production and QC	**267.00**	**20.10.2011**	**26.10.2012**	
891 panels delivered at CERN	162.00	30.10.2011	29.4.2012	
780 panels deliveder to CERN	66.00	27.7.2012	26.10.2012	4
HPL to KODEL	**81.00**	**25.7.2012**	**14.11.2012**	
891 panels delivered to KODEL	5.00	25.7.2012	31.7.2012	4
780 panels delivered to KODEL	7.00	6.11.2012	14.11.2012	5
Gap Production	**293.00**	**6.8.2012**	**2.10.2013**	
1. 60 Gap production 1-60 Type 3	**50.00**	**6.8.2012**	**12.10.2012**	
60 RE4/3 Gap production for CERN/GENT (20ch)	35.00	6.8.2012	21.9.2012	7
trasport KODEL to CERN (20ch)	7.00	24.9.2012	2.10.2012	12
Trasport CERN to GENT (12ch)	3.00	3.10.2012	5.10.2012	13
Contingency	5.00	8.10.2012	12.10.2012	14
2. 60 Gap production 1-60 Type 2	**46.00**	**12.9.2012**	**14.11.2012**	
60 RE4/2 Gap production for BARC/CERN (20ch)	33.00	12.9.2012	26.10.2012	
trasport KODEL to BARC	7.00	29.10.2012	6.11.2012	17
trasport KODEL to CERN	7.00	29.10.2012	6.11.2012	17
Contingency	6.00	7.11.2012	14.11.2012	19
3. 60 Gap production for 61-120 Type 3	**50.00**	**15.10.2012**	**21.12.2012**	
60 RE4/3 Gap production for CERN/GENT (20ch)	35.00	15.10.2012	30.11.2012	
trasport KODEL to CERN	7.00	3.12.2012	11.12.2012	22
Trasport CERN to GENT	3.00	12.12.2012	14.12.2012	23
Contingency	5.00	17.12.2012	21.12.2012	24
4. 60 Gap production for 61-120 Type 2	**53.00**	**5.11.2012**	**30.1.2013**	
60 RE4/2 Gap production for BARC/CERN (20 ch)	40.00	5.11.2012	11.1.2013	
trasport KODEL to BARC	7.00	14.1.2013	22.1.2013	27
trasport KODEL to CERN	7.00	14.1.2013	22.1.2013	27
Contingency	6.00	23.1.2013	30.1.2013	29
5. 60 Gap production 121-180 Type 3	**60.00**	**10.12.2012**	**15.3.2013**	
60 RE4/3 Gap production for CERN/GENT (20ch)	45.00	10.12.2012	22.2.2013	
trasport KODEL to CERN	7.00	25.2.2013	5.3.2013	32
trasport CERN to GENT	3.00	6.3.2013	8.3.2013	33
Contingency	5.00	11.3.2013	15.3.2013	34
6. 60 Gap production 121-180 Type 2	**53.00**	**4.2.2013**	**17.4.2013**	
60 RE4/2 Gap production for BARC/CERN (20ch)	40.00	4.2.2013	29.3.2013	8
trasport KODEL to BARC	7.00	1.4.2013	9.4.2013	37
Trasport KODEL to CERN	7.00	1.4.2013	9.4.2013	37
Contingency	6.00	10.4.2013	17.4.2013	39
7. 60 Gap production 181-240 Type 3	**50.00**	**18.3.2013**	**24.5.2013**	
60 RE4/3 Gap production for CERN/GENT (20ch)	35.00	18.3.2013	3.5.2013	
trasport KODEL to CERN	7.00	6.5.2013	14.5.2013	42
trasport CERN to GENT	3.00	15.5.2013	17.5.2013	43
Contingency	5.00	20.5.2013	24.5.2013	44
8. 60 Gap production 181-240 Type 2	**48.00**	**22.4.2013**	**26.6.2013**	
60 RE4/2 Gap production for BARC/CERN (20ch)	35.00	22.4.2013	7.6.2013	
trasport KODEL to BARC	7.00	10.6.2013	18.6.2013	47
Trasport KODEL to CERN	7.00	10.6.2013	18.6.2013	47
Contingency	6.00	19.6.2013	26.6.2013	49
9 90 Gap production 241-330 Type 3	**60.00**	**27.5.2013**	**16.8.2013**	
90 RE4/3 Gap production for CERN/GENT (30ch)	45.00	27.5.2013	26.7.2013	
trasport KODEL to CERN	7.00	29.7.2013	6.8.2013	52
trasport CERN to GENT	3.00	7.8.2013	9.8.2013	53
Contingency	5.00	12.8.2013	16.8.2013	54
10. 90 Gap production 241-330 Type 2	**58.00**	**15.7.2013**	**2.10.2013**	
90 RE4/2 Gap production for BARC/CERN (30ch)	45.00	15.7.2013	13.9.2013	
trasport KODEL to BARC	7.00	16.9.2013	24.9.2013	57
Trasport KODEL to CERN	7.00	16.9.2013	24.9.2013	57
Contingency	6.00	25.9.2013	2.10.2013	59
Chamber production	**313.00**	**15.10.2012**	**22.1.2014**	
First 20 T3 chambers (CERN and GENT)	**57.00**	**15.10.2012**	**15.1.2013**	
13ch T3 assembly at GENT	13.00	15.10.2012	31.10.2012	15
13ch T3 QC at GENT	15.00	1.11.2012	21.11.2012	66
Contingency	24.00	22.11.2012	8.1.2013	67
Transport GENT to CERN	5.00	9.1.2013	15.1.2013	68
7ch T3 assembly at CERN	7.00	15.10.2012	23.10.2012	15
7ch T3 QC at CERN	5.00	24.10.2012	30.10.2012	70
Contingency	10.00	31.10.2012	13.11.2012	71
First 20 T2 chambers (BARC and CERN)	**70.00**	**15.11.2012**	**6.3.2013**	
10ch T2 assembly at BARC	10.00	15.11.2012	28.11.2012	20
10ch T2 QC at BARC	20.00	29.11.2012	9.1.2013	74
Contingency	30.00	10.1.2013	20.2.2013	75
Transport BARC to CERN	10.00	21.2.2013	6.3.2013	76
10ch T2 assembly at CERN	10.00	15.11.2012	28.11.2012	20
10ch T2 QC at CERN	5.00	29.11.2012	5.12.2012	78
Contingency	5.00	6.12.2012	12.12.2012	79
Second 20 T3 chambers (CERN and GENT)	**57.00**	**7.1.2013**	**26.3.2013**	
13ch T3 assembly at GENT	13.00	7.1.2013	23.1.2013	25
13ch T3 QC at GENT	15.00	24.1.2013	13.2.2013	82
Contingency	24.00	14.2.2013	19.3.2013	83
Transport GENT to CERN	5.00	20.3.2013	26.3.2013	84
7ch T3 assembly at CERN	7.00	7.1.2013	15.1.2013	25
7ch T3 QC at CERN	5.00	16.1.2013	22.1.2013	86
Contingency	10.00	23.1.2013	5.2.2013	87
Second 20 T2 chambers (BARC and CERN)	**70.00**	**31.1.2013**	**8.5.2013**	
10ch T2 assembly at BARC	10.00	31.1.2013	13.2.2013	30
10ch T2 QC at BARC	20.00	14.2.2013	13.3.2013	90
Contingency	30.00	14.3.2013	24.4.2013	91
Transport BARC to CERN	10.00	25.4.2013	8.5.2013	92
10ch T2 assembly at CERN	10.00	31.1.2013	13.2.2013	30
10ch T2 QC at CERN	5.00	14.2.2013	20.2.2013	94
Contingency	5.00	21.2.2013	27.2.2013	95
Third 20 T3 chambers (CERN and GENT)	**57.00**	**18.3.2013**	**4.6.2013**	
13ch T3 assembly at GENT	13.00	18.3.2013	3.4.2013	35
13ch T3 QC at GENT	15.00	4.4.2013	24.4.2013	98
Contingency	24.00	25.4.2013	28.5.2013	99
Transport GENT to CERN	5.00	29.5.2013	4.6.2013	100
7ch T3 assembly at CERN	7.00	18.3.2013	26.3.2013	35
7ch T3 QC at CERN	5.00	27.3.2013	2.4.2013	102
Contingency	10.00	3.4.2013	16.4.2013	103
Third 20 T2 chambers (BARC and CERN)	**70.00**	**18.4.2013**	**24.7.2013**	
10ch T2 assembly at BARC	10.00	18.4.2013	1.5.2013	40
10ch T2 QC at BARC	20.00	2.5.2013	29.5.2013	106
Contingency	30.00	30.5.2013	10.7.2013	107
Transport BARC to CERN	10.00	11.7.2013	24.7.2013	108
10ch T2 assembly at CERN	10.00	18.4.2013	1.5.2013	40
10ch T2 QC at CERN	5.00	2.5.2013	8.5.2013	110
Contingency	5.00	9.5.2013	15.5.2013	111
Fourth 20 T3 chambers (CERN and GENT)	**57.00**	**27.5.2013**	**13.8.2013**	
13ch T3 assembly at GENT	13.00	27.5.2013	12.6.2013	45
13ch T3 QC at GENT	15.00	13.6.2013	3.7.2013	114
Contingency	24.00	4.7.2013	6.8.2013	115
Transport GENT to CERN	5.00	7.8.2013	13.8.2013	116
7ch T3 assembly at CERN	7.00	27.5.2013	4.6.2013	45
7ch T3 QC at CERN	5.00	5.6.2013	11.6.2013	118
Contingency	10.00	12.6.2013	25.6.2013	119
Fourth 20 T2 chambers (BARC and CERN)	**70.00**	**27.6.2013**	**2.10.2013**	
10ch T2 assembly at BARC	10.00	27.6.2013	10.7.2013	50
10ch T2 QC at BARC	20.00	11.7.2013	7.8.2013	122
Contingency	30.00	8.8.2013	18.9.2013	123
Transport BARC to CERN	10.00	19.9.2013	2.10.2013	124
10ch T2 assembly at CERN	10.00	27.6.2013	10.7.2013	50
10ch T2 QC at CERN	5.00	11.7.2013	17.7.2013	126
Contingency	5.00	18.7.2013	24.7.2013	127
Fifth 20 T3 chambers (CERN and GENT)	**27.00**	**19.8.2013**	**24.9.2013**	
5ch T3 assembly at GENT	5.00	19.8.2013	23.8.2013	55
5ch T3 QC at GENT	5.00	26.8.2013	30.8.2013	130
Contingency	10.00	2.9.2013	13.9.2013	131
Transport GENT to CERN	5.00	16.9.2013	20.9.2013	132
15ch T3 assembly at CERN	15.00	19.8.2013	6.9.2013	55
15ch T3 QC at CERN	10.00	9.9.2013	20.9.2013	134
Contingency	2.00	23.9.2013	24.9.2013	135
Fifth 20 T2 chambers (BARC and CERN)	**70.00**	**3.10.2013**	**22.1.2014**	
10ch T2 assembly at BARC	10.00	3.10.2013	16.10.2013	60
10ch T2 QC at BARC	20.00	17.10.2013	13.11.2013	138
Contingency	30.00	14.11.2013	8.1.2014	139
Transport BARC to CERN	10.00	9.1.2014	22.1.2014	140
10ch T2 assembly at CERN	10.00	3.10.2013	16.10.2013	60
10ch T2 QC at CERN	5.00	17.10.2013	23.10.2013	142
Contingency	5.00	24.10.2013	30.10.2013	143
Chamber QC4 at CERN	**311.00**	**14.11.2012**	**19.2.2014**	
First 20 T3 chambers QC4 (CERN and GENT)	**55.00**	**14.11.2012**	**12.2.2013**	
13ch GENT T3 QC4	15.00	16.1.2013	5.2.2013	69
Contingency	5.00	6.2.2013	12.2.2013	151
7ch CERN T3 QC4	15.00	14.11.2012	4.12.2012	72
Contingency	5.00	5.12.2012	11.12.2012	153
First 20 T2 chambers (BARC and CERN)	**70.00**	**13.12.2012**	**3.4.2013**	
10ch BARC T2 QC	15.00	7.3.2013	27.3.2013	77
Contingency	5.00	28.3.2013	3.4.2013	156
10ch CERN T2 QC	15.00	13.12.2012	16.1.2013	80
Contingency	5.00	17.1.2013	23.1.2013	158
Second 20 T3 chambers QC4 (CERN and	**61.00**	**6.2.2013**	**1.5.2013**	
13ch GENT T3 QC4	15.00	4.4.2013	24.4.2013	1, 157, 1
Contingency	5.00	25.4.2013	1.5.2013	161
7ch CERN T3 QC4	15.00	6.2.2013	26.2.2013	88
Contingency	5.00	27.2.2013	5.3.2013	163
Second 20 T2 chambers (BARC and CERN)	**70.00**	**28.2.2013**	**5.6.2013**	
10ch BARC T2 QC	15.00	9.5.2013	29.5.2013	93
Contingency	5.00	30.5.2013	5.6.2013	166
10ch CERN T2 QC	15.00	28.2.2013	20.3.2013	96
Contingency	5.00	21.3.2013	27.3.2013	168
Third 20 T3 chambers QC4 (CERN and	**61.00**	**17.4.2013**	**10.7.2013**	
13ch GENT T3 QC4	15.00	13.6.2013	3.7.2013	1, 167, 1
Contingency	5.00	4.7.2013	10.7.2013	171
7ch CERN T3 QC4	15.00	17.4.2013	7.5.2013	104
Contingency	5.00	8.5.2013	14.5.2013	173
Third 20 T2 chambers (BARC and CERN)	**70.00**	**16.5.2013**	**21.8.2013**	
10ch BARC T2 QC	15.00	25.7.2013	14.8.2013	109
Contingency	5.00	15.8.2013	21.8.2013	176
10ch CERN T2 QC	15.00	16.5.2013	5.6.2013	112
Contingency	5.00	6.6.2013	12.6.2013	178
Fourth 20 T3 chambers QC4 (CERN and	**61.00**	**26.6.2013**	**18.9.2013**	
13ch GENT T3 QC4	15.00	22.8.2013	11.9.2013	7, 177, 1
Contingency	5.00	12.9.2013	18.9.2013	181
7ch CERN T3 QC4	15.00	26.6.2013	16.7.2013	120
Contingency	5.00	17.7.2013	23.7.2013	183
Fourth 20 T2 chambers (BARC and CERN)	**70.00**	**25.7.2013**	**30.10.2013**	
10ch BARC T2 QC	15.00	3.10.2013	23.10.2013	125
Contingency	5.00	24.10.2013	30.10.2013	186
10ch CERN T2 QC	15.00	25.7.2013	14.8.2013	128
Contingency	5.00	15.8.2013	21.8.2013	188
Fifth 20 T3 chambers QC4 (CERN and GENT)	**40.00**	**25.9.2013**	**19.11.2013**	
13ch GENT T3 QC4	15.00	23.10.2013	12.11.2013	133, 194
Contingency	5.00	13.11.2013	19.11.2013	191
7ch CERN T3 QC4	15.00	25.9.2013	15.10.2013	136
Contingency	5.00	16.10.2013	22.10.2013	193
Fifth 20 T2 chambers (BARC and CERN)	**56.00**	**20.11.2013**	**19.2.2014**	
10ch BARC T2 QC	15.00	23.1.2014	12.2.2014	141
Contingency	5.00	13.2.2014	19.2.2014	196
10ch CERN T2 QC	15.00	20.11.2013	10.12.2013	4, 187, 1
Contingency	5.00	11.12.2013	17.12.2013	198
SM QC4 at CERN	**161.00**	**4.4.2013**	**14.11.2013**	
First 20 SM (20T2+20T3) QC4	**10.00**	**4.4.2013**	**17.4.2013**	
20 SM Assembly and test	7.00	4.4.2013	12.4.2013	152, 157
Contingency	3.00	15.4.2013	17.4.2013	203
Second 20 SM (20T2+20T3) QC4	**10.00**	**6.6.2013**	**19.6.2013**	
20 SM Assembly and test	7.00	6.6.2013	14.6.2013	162, 167
Contingency	3.00	17.6.2013	19.6.2013	206
FIRST ENDCAP READY (+10%)	**1.00**	**20.6.2013**	**20.6.2013**	**207**
Third 20 SM (20T2+20T3) QC4	**10.00**	**22.8.2013**	**4.9.2013**	
20 SM Assembly and test	7.00	22.8.2013	30.8.2013	172, 177
Contingency	3.00	2.9.2013	4.9.2013	210
Fourth 20 SM (20T2+20T3) QC4	**10.00**	**31.10.2013**	**13.11.2013**	
20 SM Assembly and test	7.00	31.10.2013	8.11.2013	182, 187
Contingency	3.00	11.11.2013	13.11.2013	213
SECOND ENDCAP READY	**1.00**	**14.11.2013**	**14.11.2013**	**214**
SPARE CH completed (40ch)	**1.00**	**20.2.2014**	**20.2.2014**	**197**
Interventions in P5 during LS1	**169.00**	**3.7.2013**	**10.3.2014**	
RB	**154.00**	**3.7.2013**	**17.2.2014**	
RB-0	38.00	3.7.2013	23.8.2013	
RB-1	22.00	26.8.2013	24.9.2013	222
RB-2	23.00	25.9.2013	25.10.2013	223
RB+0	31.00	28.10.2013	5.12.2013	224
RB+1	20.00	10.12.2013	20.1.2014	225
RB+2	20.00	21.1.2014	17.2.2014	226
RE	**134.00**	**3.7.2013**	**20.1.2014**	
RE-1	6.00	13.11.2013	20.11.2013	
RE-2	6.00	21.11.2013	28.11.2013	229
RE-3	7.00	29.11.2013	9.12.2013	230
RE+1	6.00	10.12.2013	17.12.2013	231
RE+2	7.00	18.12.2013	9.1.2014	232
RE+3	7.00	10.1.2014	20.1.2014	233
RE+1 alternative	6.00	3.7.2013	10.7.2013	
RE+2 alternative	7.00	11.7.2013	19.7.2013	235
RE+3 alternative	7.00	22.7.2013	30.7.2013	236
RE4	**118.00**	**12.9.2013**	**10.3.2014**	
RE+4 Installation	6.00	12.9.2013	19.9.2013	
RE+4 Commissioning	20.00	20.9.2013	17.10.2013	239
RE-4 Installation	6.00	3.2.2014	10.2.2014	
RE-4 Commissioning	20.00	11.2.2014	10.3.2014	241