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# BLOK 8



## A. Perhitungan dan perakitan blok 8

PERHITUNGAN DURASI PERAKITAN <i>BLOCK 8</i>											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO		JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP G, I, J, K	-2 - 6.SP.SB1.SS8.Sb (G)		1.5			0.537 x w	0.79	1	0.791	47.47
2	Fiting SP G ke I	-2 - 6.SP.SB1.SS8.Sb (G)	5.6			0.067 x 1		0.38	1	0.375	22.51
3	Fiting SP I ke J	-2 - 6.SP.SB1.SS8.Sb (I)	6.2			0.067 x 1		0.42	1	0.415	24.92
4	Fiting SP J ke K	-2 - 6.SP.SB1.SS8.Sb (J)	1.8			0.067 x 1		0.12	1	0.121	7.24
5	Welding SP G ke I	-2 - 6.SP.SB1.SS8.Sb (G)	11.2		0.133 x 1			1.49	2	0.745	44.69
6	Welding SP I ke J	-2 - 6.SP.SB1.SS8.Sb (I)	12.4		0.133 x 1			1.65	2	0.825	49.48
7	Welding SP J ke K	-2 - 6.SP.SB1.SS8.Sb (J)	3.6		0.133 x 1			0.48	2	0.239	14.36
8	Lifting MF 0,1,3,4,5,6	MF.SB1.SS8.Sb		0.123			0.537 x w	0.07	1	0.066	3.97
9	Fiting MF ke SP	0.MF.SB1.SS8.Sb	3.13			0.067 x 1		0.21	1	0.209	12.57
10	Fiting MF ke SP	1.MF.SB1.SS8.Sb	3.12			0.067 x 1		0.21	1	0.209	12.54
11	Fiting MF ke SP	3.MF.SB1.SS8.Sb	2.93			0.067 x 1		0.20	1	0.196	11.79
12	Fiting MF ke SP	4.MF.SB1.SS8.Sb	4.61			0.067 x 1		0.31	1	0.309	18.51
13	Fiting MF ke SP	5.MF.SB1.SS8.Sb	2.46			0.067 x 1		0.17	1	0.165	9.91
14	Fiting MF ke SP	6.MF.SB1.SS8.Sb	4.60			0.067 x 1		0.31	1	0.308	18.50
15	Welding MF ke SP	0.MF.SB1.SS8.Sb	3.13		0.133 x 1			0.42	2	0.208	12.47
16	Welding MF ke SP	1.MF.SB1.SS8.Sb	3.12		0.133 x 1			0.41	2	0.207	12.45
17	Welding MF ke SP	3.MF.SB1.SS8.Sb	2.93		0.133 x 1			0.39	2	0.195	11.70
18	Welding MF ke SP	4.MF.SB1.SS8.Sb	4.61		0.133 x 1			0.61	2	0.306	18.37
19	Welding MF ke SP	5.MF.SB1.SS8.Sb	2.46		0.133 x 1			0.33	2	0.164	9.83
20	Welding MF ke SP	6.MF.SB1.SS8.Sb	4.60		0.133 x 1			0.61	2	0.306	18.36
21	Lifting WF -2,(-1),2	-2,(-1),2.WF.SB1.SS8.Sb		0.670			0.537 x w	0.36	1	0.360	21.59
22	Fiting WF ke SP	-2.WF.SB1.SS8.Sb	2.3			0.067 x 1		0.15	1	0.154	9.25
23	Fiting WF ke SP	-1.WF.SB1.SS8.Sb	2.3			0.067 x 1		0.15	1	0.154	9.25
24	Fiting WF ke SP	2.WF.SB1.SS8.Sb	2.3			0.067 x 1		0.15	1	0.154	9.25
25	Welding WF ke SP	-2.WF.SB1.SS8.Sb	4.6		0.133 x 1			0.61	2	0.306	18.35
26	Welding WF ke SP	-1.WF.SB1.SS8.Sb	4.6		0.133 x 1			0.61	2	0.306	18.35



**PERHITUNGAN DURASI PERAKITAN *BLOCK 8***

27	Welding WF ke SP	2.WF.SB1.SS8.Sb	4.6	0.133 x l	0.61	2	0.306	18.35
28	Lifting Brck. of MF 0,1,3,4,5,6	MF.SB1.SS8.Sb		0.0401	0.537 x w	0.02	1	0.022 1.29
29	Fiting Brck. of MF ke MF	0.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
30	Fiting Brck. of MF ke MF	1.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
31	Fiting Brck. of MF ke MF	3.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
32	Fiting Brck. of MF ke MF	4.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
33	Fiting Brck. of MF ke MF	5.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
34	Fiting Brck. of MF ke MF	6.MF.SB1.SS8.Sb	0.5	0.067 x l	0.03	1	0.034	2.01
35	Welding Brck. of MF	0.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
36	Welding Brck. of MF	1.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
37	Welding Brck. of MF	3.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
38	Welding Brck. of MF	4.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
39	Welding Brck. of MF	5.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
40	Welding Brck. of MF	6.MF.SB1.SS8.Sb	0.5	0.133 x l	0.07	2	0.033	2.00
	JUMLAH		109.20	2.31			8.5	511.3
<b>PANEL 2 LONGI. BULKHEAD</b>								
1	Lifting BP A-D	-2 - 6 BP.SB1.SS8.Sb		1.79	0.537 x w	0.96	1	0.962 57.73
2	Fiting BP A ke B	-2 - 6 BP.SB1.SS8.Sb	2.65	0.067 x l	0.18	1	0.177	10.64
3	Fiting BP B ke C	-2 - 6 BP.SB1.SS8.Sb	2.65	0.067 x l	0.18	1	0.177	10.64
4	Fiting BP C ke D	-2 - 6 BP.SB1.SS8.Sb	4.70	0.067 x l	0.31	1	0.315	18.89
5	Welding BP A ke B	-2 - 6 BP.SB1.SS8.Sb	5.29	0.133 x l	0.70	2	0.352	21.12
6	Welding BP B ke C	-2 - 6 BP.SB1.SS8.Sb	5.29	0.133 x l	0.70	2	0.352	21.12
7	Welding BP C ke D	-2 - 6 BP.SB1.SS8.Sb	9.40	0.133 x l	1.25	2	0.625	37.51
8	Lifting SF 0,1,3,4,5,6	ST.SB1.SS8.Sb		0.119	0.537 x w	0.06	1	0.064 3.83
9	Fiting SF ke BP	0.ST.SB1.SS8.Sb	4.00	0.067 x l	0.27	1	0.268	16.06
10	Fiting SF ke BP	1.ST.SB1.SS8.Sb	4.08	0.067 x l	0.27	1	0.273	16.39
11	Fiting SF ke BP	3.ST.SB1.SS8.Sb	3.28	0.067 x l	0.22	1	0.219	13.17
12	Fiting SF ke BP	4.ST.SB1.SS8.Sb	3.24	0.067 x l	0.22	1	0.217	13.01
13	Fiting SF ke BP	5.ST.SB1.SS8.Sb	4.05	0.067 x l	0.27	1	0.271	16.28
14	Fiting SF ke BP	6.ST.SB1.SS8.Sb	3.33	0.067 x l	0.22	1	0.223	13.37
15	Welding SF ke BP	0.ST.SB1.SS8.Sb	7.99	0.133 x l	1.06	2	0.531	31.89
16	Welding SF ke BP	1.ST.SB1.SS8.Sb	8.15	0.133 x l	1.08	2	0.542	32.53
17	Welding SF ke BP	3.ST.SB1.SS8.Sb	6.55	0.133 x l	0.87	2	0.436	26.13



PERHITUNGAN DURASI PERAKITAN <i>BLOCK 8</i>									
18	Welding SF ke BP	4.ST.SB1.SS8.Sb	6.47	0.133 x 1	0.86	2	0.431	25.83	
19	Welding SF ke BP	5.ST.SB1.SS8.Sb	8.10	0.133 x 1	1.08	2	0.539	32.32	
20	Welding SF ke BP	6.ST.SB1.SS8.Sb	6.65	0.133 x 1	0.88	2	0.442	26.55	
21	Lifting Brck. of SF 0,1,3,4,5,6	BS.SB1.SS8.Sb	0.006		0.537 x w	0.0031	1	0.003	0.19
22	Fiting Brck. of SF ke SF	0.BS.SB1.SS8.Sb	0.75	0.067 x 1	0.05	1	0.050	3.02	
23	Fiting Brck. of SF ke SF	1.BS.SB1.SS8.Sb	0.75	0.067 x 1	0.05	1	0.050	3.02	
24	Fiting Brck. of SF ke SF	3.BS.SB1.SS8.Sb	0.75	0.067 x 1	0.05	1	0.050	3.02	
25	Fiting Brck. of SF ke SF	4.BS.SB1.SS8.Sb	0.75	0.067 x 1	0.05	1	0.050	3.02	
26	Fiting Brck. of SF ke SF	5.BS.SB1.SS8.Sb	1	0.067 x 1	0.07	1	0.067	4.02	
27	Fiting Brck. of SF ke SF	6.BS.SB1.SS8.Sb	0.75	0.067 x 1	0.05	1	0.050	3.02	
28	Welding Brck. of SF ke SF	0.BS.SB1.SS8.Sb	0.75	0.133 x 1	0.10	2	0.050	2.99	
29	Welding Brck. of SF ke SF	1.BS.SB1.SS8.Sb	0.75	0.133 x 1	0.10	2	0.050	2.99	
30	Welding Brck. of SF ke SF	3.BS.SB1.SS8.Sb	0.75	0.133 x 1	0.10	2	0.050	2.99	
31	Welding Brck. of SF ke SF	4.BS.SB1.SS8.Sb	0.75	0.133 x 1	0.10	2	0.050	2.99	
32	Welding Brck. of SF ke SF	5.BS.SB1.SS8.Sb	1	0.133 x 1	0.13	2	0.067	3.99	
33	Welding Brck. of SF ke SF	6.BS.SB1.SS8.Sb	0.75	0.133 x 1	0.10	2	0.050	2.99	
JUMLAH			105.36	1.92			8.05	483.24	
<b>TOTAL</b>				4.22					
<b>SUB BLOCK 2 (PORT SIDE)</b>									
<b>SUB BLOCK 3 (DECK)</b>									
PANEL 5 DECK									
1	Lifting DP A-G	'-2 - 6.DP.SB3.SS8	0.764		0.537 x w	0.41	1	0.410	24.61
2	Fiting DP A ke B	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
3	Fiting DP B ke C	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
4	Fiting DP C ke D	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
5	Fiting DP D ke E	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
6	Fiting DP E ke F	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
7	Fiting DP F ke G	'-2 - 6.DP.SB3.SS8	1.35	0.067 x 1	0.09	1	0.090	5.43	
8	Welding DP A ke B	'-2 - 6.DP.SB3.SS8	2.7	0.133 x 1	0.36	2	0.180	10.77	
9	Welding DP B ke C	'-2 - 6.DP.SB3.SS8	2.7		0.36	2	0.180	10.77	
10	Welding DP C ke D	'-2 - 6.DP.SB3.SS8	2.7		0.36	2	0.180	10.77	
11	Welding DP D ke E	'-2 - 6.DP.SB3.SS8	2.7		0.36	2	0.180	10.77	
12	Welding DP E ke F	'-2 - 6.DP.SB3.SS8	2.7		0.36	2	0.180	10.77	



**PERHITUNGAN DURASI PERAKITAN *BLOCK 8***

13	Welding DP F ke G	'2 - 6.DP.SB3.SS8	2.7			0.36	2	0.180	10.77	
14	Lifting DL	-2 - 6. LD. SB3.SS8		0.073		0.537 x w	0.04	1	0.039	2.37
15	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
16	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
17	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
18	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
19	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
20	Fiting DL ke DP	-2 - 6. LD. SB3.SS8	1.5		0.067 x l		0.10	1	0.101	6.03
21	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
22	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
23	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
24	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
25	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
26	Welding DL ke DP	-2 - 6. LD. SB3.SS8	3		0.133 x l		0.40	2	0.200	11.97
27	Lifting DT 4-6 SB dan PS	4-6.DT.SB3.SS8.Sb & PS		0.157		0.537 x w	0.08	1	0.084	5.07
28	Fiting DT ke DP	4.DT.SB3.SS8.Sb	4.4		0.067 x l		0.30	1	0.297	17.80
29	Fiting DT ke DP	5.DT.SB3.SS8.Sb	4.4		0.067 x l		0.30	1	0.297	17.80
30	Fiting DT ke DP	6.DT.SB3.SS8.Sb	4.4		0.067 x l		0.30	1	0.297	17.80
31	Fiting DT ke DP	4.DT.SB3.SS8.PS	4.4		0.067 x l		0.30	1	0.297	17.80
32	Fiting DT ke DP	5.DT.SB3.SS8.PS	4.4		0.067 x l		0.30	1	0.297	17.80
33	Fiting DT ke DP	6.DT.SB3.SS8.PS	4.4		0.067 x l		0.30	1	0.297	17.80
34	Welding DT ke DP	4.DT.SB3.SS8.Sb	8.9		0.133 x l		1.18	2	0.589	35.34
35	Welding DT ke DP	5.DT.SB3.SS8.Sb	8.9		0.133 x l		1.18	2	0.589	35.34
36	Welding DT ke DP	6.DT.SB3.SS8.Sb	8.9		0.133 x l		1.18	2	0.589	35.34
37	Welding DT ke DP	4.DT.SB3.SS8.PS	8.9		0.133 x l		1.18	2	0.589	35.34
38	Welding DT ke DP	5.DT.SB3.SS8.PS	8.9		0.133 x l		1.18	2	0.589	35.34
39	Welding DT ke DP	6.DT.SB3.SS8.PS	4.4		0.133 x l		0.59	2	0.295	17.67
40	Lifting Brck. of DT 4-6 SB dan PS	4-6.BDT.SB3.SS8.Sb & PS		0.048		0.537 x w	0.03	1	0.026	1.55
41	Fiting Brck. of DT	4.BDT.SB3.SS8.Sb	0.75		0.067 x l		0.05	1	0.050	3.02
42	Fiting Brck. of DT	5.BDT.SB3.SS8.Sb	0.75		0.067 x l		0.05	1	0.050	3.02
43	Fiting Brck. of DT	6.BDT.SB3.SS8.Sb	0.75		0.067 x l		0.05	1	0.050	3.02
44	Fiting Brck. of DT	4.BDT.SB3.SS8.PS	0.75		0.067 x l		0.05	1	0.050	3.02
45	Fiting Brck. of DT	5.BDT.SB3.SS8.PS	0.75		0.067 x l		0.05	1	0.050	3.02



PERHITUNGAN DURASI PERAKITAN <i>BLOCK 8</i>									
46	Fiting Brck. of DT	6.BDT.SB3.SS8.PS	0.75		0.067 x 1	0.05	1	0.050	3.02
47	Welding Brck. of DT	4.BDT.SB3.SS8.Sb	0.75	0.133 x 1		0.10	2	0.050	2.99
48	Welding Brck. of DT	5.BDT.SB3.SS8.Sb	0.75	0.133 x 1		0.10	2	0.050	2.99
49	Welding Brck. of DT	6.BDT.SB3.SS8.Sb	0.75	0.133 x 1		0.10	2	0.050	2.99
50	Welding Brck. of DT	4.BDT.SB3.SS8.PS	0.75	0.133 x 1		0.10	2	0.050	2.99
51	Welding Brck. of DT	5.BDT.SB3.SS8.PS	0.75	0.133 x 1		0.10	2	0.050	2.99
52	Welding Brck. of DT	6.BDT.SB3.SS8.PS	0.75	0.133 x 1		0.10	2	0.050	2.99
JUMLAH			135.59	1.04				9.60	576.06

SUB BLOCK 2 (PORT SIDE) PANEL 4 (SIDE)									
NO	LIFTING		FITING		WELDING		DURA SI REAL	TENAGA KERJA	
	KEGIATAN	DURA SI	KEGIATAN	DURA SI	KEGIATAN	DURA SI			
1	Lifting Side Plate G, I, J, K	0.791					0.791	1	
2			Fiting Side Plate G ke I	0.375			0.375	1	
3			Fiting Side Plate I ke J	0.415	Welding Side Plate G ke I	0.745	0.745	3	
4			Fiting Side Plate J ke K	0.121	Welding Side Plate I ke J	0.825	0.825	3	
5					Welding Side Plate J ke K	0.239	0.239	2	
6	Lifting Main Frame 0,1,3,4,5,6	0.066					0.066	1	
7			Fiting Main Frame ke Side Plate	1.397			1.397	1	
8					Welding Main Frame ke Side Plate	1.386	1.386	2	
9	Lifting Web Frame -2,(-1),2	0.670					0.670	1	
10			Fiting Web Frame ke Side Plate	0.154			0.154	1	
11					Welding Web Frame ke Side Plate	0.306	0.306	2	
12	Lifting Brck. of Main Frame 0,1,3,4,5,6	0.022					0.022	1	
13			Fiting Brck. of Main Frame ke Main Frame	0.201			0.201	1	
14					Welding Brck. of Main Frame ke Main Frame	0.200	0.200	2	
TOTAL		1.549		2.663		3.701	7.377	5	





SUB BLOCK 2 (PORT SIDE), PANEL 3 LONGI. BULKHEAD								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A-D	0.962					0.962	1
2			Fiting BP A ke B	0.177			0.177	1
3			Fiting BP B ke C	0.177	Welding BP A ke B	0.352	0.352	3
4			Fiting BP C ke D	0.315	Welding BP B ke C	0.352	0.352	3
5					Welding BP C ke D	0.625	0.625	2
6	Lifting SF 0,1,3,4,5,6	0.064					0.064	1
7			Fiting SF ke BP	1.471			1.471	1
8					Welding SF ke BP	2.921	2.921	2
9	Lifting Brck. of SF 0,1,3,4,5,6	0.003					0.003	1
10			Fiting Brck. of SF ke SF	0.318			0.318	1
11					Welding Brck. of SF ke SF	0.316	0.316	2
	<b>TOTAL</b>	<b>1.03</b>		<b>2.46</b>		<b>4.566</b>	<b>7.56</b>	<b>5</b>

SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Side Plate G, I, J, K	0.791					0.791	1
2			Fiting Side Plate G ke I	0.375			0.375	1
3			Fiting Side Plate I ke J	0.415	Welding Side Plate G ke I	0.745	0.745	3
4			Fiting Side Plate J ke K	0.121	Welding Side Plate I ke J	0.825	0.825	3
5					Welding Side Plate J ke K	0.239	0.239	2
6	Lifting Main Frame 0,1,3,4,5,6	0.066					0.066	1
7			Fiting Main Frame ke Side Plate	1.397			1.397	1
8					Welding Main Frame ke Side Plate	1.386	1.386	2
9	Lifting Web Frame -2,(-1),2	0.670					0.67	1
10			Fiting Web Frame ke Side Plate	0.154			0.154	1
11					Welding Web Frame ke Side Plate	0.306	0.306	2
12	Lifting Brck. of Main Frame 0,1,3,4,5,6	0.022					0.022	1



SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
13			Fiting Brck. of Main Frame ke Main Frame	0.201			0.201	1
14					Welding Brck. of Main Frame ke Main Frame	0.200	0.200	2
	<b>TOTAL</b>	<b>1.549</b>		<b>2.663</b>		<b>3.701</b>	<b>7.377</b>	<b>5</b>

SUB BLOCK 1 (STARBOARD) PANEL 2. LONGI. BULKHEAD								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A-D	0.962					0.962	1
2			Fiting BP A ke B	0.177			0.177	1
3			Fiting BP B ke C	0.177	Welding BP A ke B	0.352	0.352	3
4			Fiting BP C ke D	0.315	Welding BP B ke C	0.352	0.352	3
5					Welding BP C ke D	0.625	0.625	2
6	Lifting SF 0,1,3,4,5,6	0.064					0.064	1
7			Fiting SF ke BP	1.471			1.471	1
8					Welding SF ke BP	2.921	2.921	2
9	Lifting Brck. of SF 0,1,3,4,5,6	0.003					0.003	1
10			Fiting Brck. of SF ke SF	0.318			0.318	1
11					Welding Brck. of SF ke SF	0.316	0.316	2
	<b>TOTAL</b>	<b>1.03</b>		<b>2.46</b>		<b>4.566</b>	<b>7.56</b>	<b>5</b>

SB 3 (DECK), PANEL 5 LONGI. S								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	0.410					0.410	1
2			Fiting DP A ke B	0.090			0.090	2
3			Fiting DP B ke C	0.090	Welding DP A ke B	0.180	0.180	4



SB 3 (DECK), PANEL 5 LONGI. S								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
4			Fiting DP C ke D	0.090	Welding DP B ke C	0.180	0.180	4
5			Fiting DP D ke E	0.090	Welding DP C ke D	0.180	0.180	4
6			Fiting DP E ke F	0.090	Welding DP D ke E	0.180	0.180	4
7			Fiting DP F ke G	0.090	Welding DP E ke F	0.180	0.180	4
8					Welding DP F ke G	0.180	0.180	4
9	Lifting DL	0.039					0.039	1
10			Fiting DL ke DP	0.603			0.603	2
11					Welding DL ke DP	1.197	1.197	2
12	Lifting DT 4-6 SB dan PS	0.084					0.084	1
13			Fiting DT ke DP	1.780			1.780	2
14					Welding DT ke DP	3.240	3.240	2
15	ifting Brack. of DT 4-6 SB dan PS	0.026					0.026	1
16			Fiting Brack. of DT	0.302			0.302	2
17					Welding Brack. of DT	0.299	0.299	2
	<b>TOTAL</b>	<b>0.560</b>		<b>3.228</b>		<b>5.095</b>	<b>9.149</b>	<b>5</b>

PERAKITAN SUB-BLOCK 1 (STARBOARD)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 Longi. S	1.03					1.03	1
2			Fiting Panel 2 ke Panel 1	0.38			0.38	1
3					Welding S ke SP	0.74	0.74	2
	<b>TOTAL</b>	<b>1.03</b>		<b>0.38</b>		<b>0.74</b>	<b>2.15</b>	<b>5</b>

PERAKITAN SUB-BLOCK 2 (PORT SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 Longi. S	1.03					1.03	1
2			Fiting Panel 2 ke Panel 1	0.38			0.38	1



3				Welding S ke SP	0.74	0.74	2
	<b>TOTAL</b>	1.03			0.74	2.15	5

**PERAKITAN SUB BLOK 2+3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
2	Lifting SB 3 (Deck)	0.56					0.56	4
3			Fiting SB 3 ke SB 2	0.14			0.14	4
4					Welding DP ke SP	0.18	0.18	2
5					Welding Brack. of SB 2 ke SB 3	0.05	0.05	2
	<b>TOTAL</b>	0.560		0.141		0.229	0.930	6

**PERAKITAN BLOK 8**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
2	Lifting SB 1 (STARBOARD)	2.27					2.27	4
3			Fiting SB 3 ke SB 1	0.18			0.18	4
4					Welding DP ke SP	0.18	0.18	2
5					Welding Brack. of SB 1 ke SB 3	0.05	0.05	2
	<b>TOTAL</b>	2.268		0.180		0.229	2.677	6

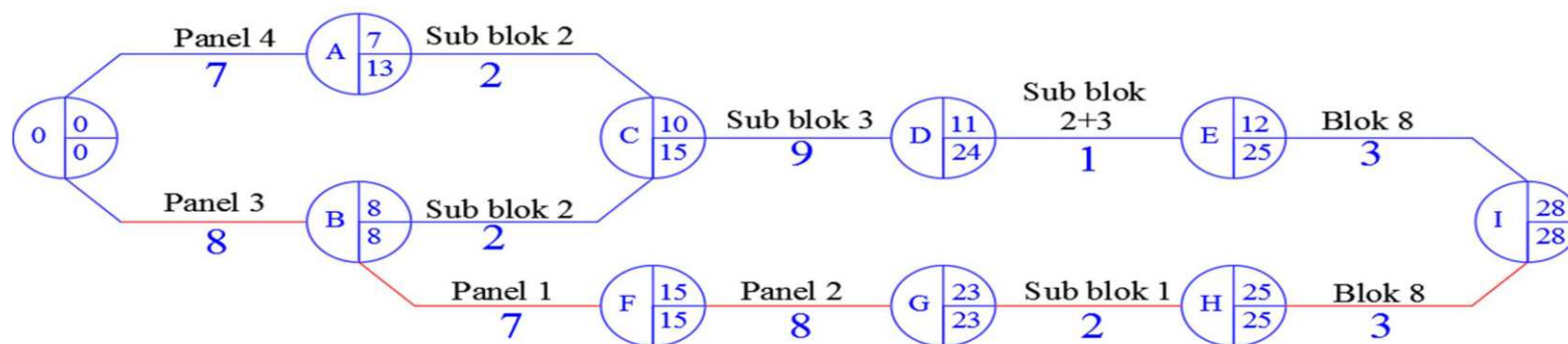


B. Hubungan Ketergantungan

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Panel 4	-	7	5	0	7	6	13	Tidak
B	Panel 3	-	8	5	0	8	0	8	Ya
C	Sub blok 2	A, B	2	5	8	10	13	15	Tidak
D	Sub blok 3	C	9	5	10	19	15	24	Tidak
E	Sub blok 2+3	D	1	5	19	20	24	25	Tidak
F	Panel 1	B	7	5	8	15	8	15	Ya
G	Panel 2	F	8	5	15	23	15	23	Ya
H	Sub blok 1	G	2	5	23	25	23	25	Ya
I	Blok 8	E, H	3	5	25	28	25	28	Ya

C. Jaringan kerja

Jalur kritis B-F-G-H-I





# BLOK 9



## A. Perhitungan dan perakitan blok 9

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENTIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP G, I, J, K	7 - 15.SP.SB1.SS9.Sb (G)		1.68			0.537 x w	0.90	1	0.90	54.21
2	Fiting SP G ke I	7 - 15.SP.SB1.SS9.Sb (G)	5.7			0.067 x l		0.38	1	0.38	22.91
3	Fiting SP I ke J	7 - 15.SP.SB1.SS9.Sb (I)	5.7			0.067 x l		0.38	1	0.38	22.91
4	Fiting SP J ke K	7 - 15.SP.SB1.SS9.Sb (J)	5.7			0.067 x l		0.38	1	0.38	22.91
5	Welding SP G ke I	7 - 15.SP.SB1.SS9.Sb (G)	11.4		0.133 x l			1.52	2	0.76	45.49
6	Welding SP I ke J	7 - 15.SP.SB1.SS9.Sb (I)	11.4		0.133 x l			1.52	2	0.76	45.49
7	Welding SP J ke K	7 - 15.SP.SB1.SS9.Sb (J)	11.4		0.133 x l			1.52	2	0.76	45.49
8	Lifting MF 8,9,11,12,14,15	MF.SB1.SS9.Sb		0.16			0.537 x w	0.09	1	0.09	5.24
9	Fiting MF ke SP	8.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
10	Fiting MF ke SP	9.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
11	Fiting MF ke SP	11.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
12	Fiting MF ke SP	12.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
13	Fiting MF ke SP	14.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
14	Fiting MF ke SP	15.MF.SB1.SS9.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
15	Welding MF ke SP	8.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
16	Welding MF ke SP	9.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
17	Welding MF ke SP	11.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
18	Welding MF ke SP	12.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
19	Welding MF ke SP	14.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
20	Welding MF ke SP	15.MF.SB1.SS9.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
21	Lifting WF 7 dan 13	7&13.WF.SB1.SS9.Sb		0.25			0.537 x w	0.14	1	0.14	8.20
22	Fiting WF ke SP	7.WF.SB1.SS9.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
23	Fiting WF ke SP	13.WF.SB2.SS9.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
24	Welding WF ke SP	7.WF.SB1.SS9.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
25	Welding WF ke SP	13.WF.SB2.SS9.Sb	8.78		0.133 x l			1.17	2	0.58	35.03



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
26	Lifting Brack. of MF 8,9,11,12,14,15	BM.SB1.SS9.Sb		0.03			0.537 x w	0.01	1	0.01	0.86
27	Fiting Brack. of MF ke MF	8.BM.SB1.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
28	Fiting Brack. of MF ke MF	9.BM.SB1.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
29	Fiting Brack. of MF ke MF	11.BM.SB1.SS9.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
30	Fiting Brack. of MF ke MF	12.BM.SB1.SS9.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
31	Fiting Brack. of MF ke MF	14.BM.SB1.SS9.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
32	Fiting Brack. of MF ke MF	15.BM.SB1.SS9.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
33	Welding Brack. of MF ke MF	8.BM.SB1.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
34	Welding Brack. of MF ke MF	9.BM.SB1.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
35	Welding Brack. of MF ke MF	11.BM.SB1.SS9.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
36	Welding Brack. of MF ke MF	12.BM.SB1.SS9.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
37	Welding Brack. of MF ke MF	14.BM.SB1.SS9.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
38	Welding Brack. of MF ke MF	15.BM.SB1.SS9.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
JUMLAH			137.60	2.13						10.32	619.21
PANEL 2 LONGI BULKHEAD											
1	Lifting BP A-H	BP.SB1.SS9.Sb		1.72			0.537 x w	0.92	1	0.92	55.45
2	Fiting BP A ke B	7-10.BP.SB1.SS9.Sb	2.6			0.067 x l		0.18	1	0.18	10.64
3	Fiting BP C ke D	10-14.BP.SB1.SS9.Sb	2.4			0.067 x l		0.16	1	0.16	9.65
4	Fiting BP D ke E	10-14.BP.SB1.SS9.Sb	2.4			0.067 x l		0.16	1	0.16	9.65
5	Fiting BP E ke F	10-14.BP.SB1.SS9.Sb	2.4			0.067 x l		0.16	1	0.16	9.65
6	Fiting BP G ke BP CDEF	10.BP.SB1.SS9.Sb	4.7			0.067 x l		0.31	1	0.31	18.89
7	Fiting BP H ke BP CDEF	14.BP.SB1.SS9.Sb	4.7			0.067 x l		0.31	1	0.31	18.89
8	Welding BP A ke B	7-10.BP.SB1.SS9.Sb	5.3		0.133 x l			0.70	2	0.35	21.12
9	Welding BP C ke D	10-14.BP.SB1.SS9.Sb	4.8		0.133 x l			0.64	2	0.32	19.15
10	Welding BP D ke E	10-14.BP.SB1.SS9.Sb	4.8		0.133 x l			0.64	2	0.32	19.15
11	Welding BP E ke F	10-14.BP.SB1.SS9.Sb	4.8		0.133 x l			0.64	2	0.32	19.15
12	Welding BP G ke BP CDEF	10.BP.SB1.SS9.Sb	9.4		0.133 x l			1.25	2	0.63	37.51
13	Welding BP H ke BP CDEF	14.BP.SB1.SS9.Sb	9.4		0.133 x l			1.25	2	0.63	37.51





NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT	
			(m)	(ton)	JO/unit	JO/unit	JO/unit					
14	Lifting Sf 8-14	8-14.ST.SB1.SS9.Sb		0.21				0.537 x w	0.11	1	0.11	6.83
15	Fiting Sf ke BP	8.ST.SB1.SS9.Sb	3.34			0.067 x l			0.22	1	0.22	13.43
16	Fiting Sf ke BP	9.ST.SB1.SS9.Sb	3.34			0.067 x l			0.22	1	0.22	13.43
17	Fiting Sf ke BP	10.ST.SB1.SS9.Sb	4.64			0.067 x l			0.31	1	0.31	18.63
18	Fiting Sf ke BP	11.ST.SB1.SS9.Sb	4.64			0.067 x l			0.31	1	0.31	18.63
19	Fiting Sf ke BP	12.ST.SB1.SS9.Sb	4.64			0.067 x l			0.31	1	0.31	18.63
20	Fiting Sf ke BP	13.ST.SB1.SS9.Sb	4.64			0.067 x l			0.31	1	0.31	18.63
21	Fiting Sf ke BP	14.ST.SB1.SS9.Sb	4.64			0.067 x l			0.31	1	0.31	18.63
22	Welding Sf ke BP	8.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
23	Welding Sf ke BP	9.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
24	Welding Sf ke BP	10.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
25	Welding Sf ke BP	11.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
26	Welding Sf ke BP	12.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
27	Welding Sf ke BP	13.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
28	Welding Sf ke BP	14.ST.SB1.SS9.Sb	6.68		0.133 x l				0.89	2	0.44	26.65
29	Lifting Brack. of Sf 8,9,11,12,14	8-14.BS.SB1.SS9.Sb		0.005				0.537 x w	0.002 4	1	0.00	0.15
30	Fiting Brack. of Sf ke Sf	8.BS.SB1.SS9.Sb	0.5			0.067 x l			0.03	1	0.03	2.01
31	Fiting Brack. of Sf ke Sf	9.BS.SB1.SS9.Sb	0.5			0.067 x l			0.03	1	0.03	2.01
32	Fiting Brack. of Sf ke Sf	10.BS.SB1.SS9.Sb	1			0.067 x l			0.07	1	0.07	4.02
33	Fiting Brack. of Sf ke Sf	11.BS.SB1.SS9.Sb	0.25			0.067 x l			0.02	1	0.02	1.01
34	Fiting Brack. of Sf ke Sf	12.BS.SB1.SS9.Sb	0.25			0.067 x l			0.02	1	0.02	1.01
35	Fiting Brack. of Sf ke Sf	13.BS.SB1.SS9.Sb	0.25			0.067 x l			0.02	1	0.02	1.01
36	Fiting Brack. of Sf ke Sf	14.BS.SB1.SS9.Sb	1			0.067 x l			0.07	1	0.07	4.02
37	Welding Brack. of Sf ke Sf	8.BS.SB1.SS9.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
38	Welding Brack. of Sf ke Sf	9.BS.SB1.SS9.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
39	Welding Brack. of Sf ke Sf	10.BS.SB1.SS9.Sb	1		0.133 x l				0.13	2	0.07	3.99
40	Welding Brack. of Sf ke Sf	11.BS.SB1.SS9.Sb	0.25		0.133 x l				0.03	2	0.02	1.00
41	Welding Brack. of Sf ke Sf	12.BS.SB1.SS9.Sb	0.25		0.133 x l				0.03	2	0.02	1.00



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
42	Welding Brack. of Sf ke Sf	13.BS.SB1.SS9.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
43	Welding Brack. of Sf ke Sf	14.BS.SB1.SS9.Sb	1		0.133 x l			0.13	2	0.07	3.99
JUMLAH			141.85	1.94						10.50	630.00
<b>TOTAL</b>				4.06							
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL 4 SIDE											
<b>SUB BLOCK 3 (DECK)</b>											
PANEL 5 DECK											
1	Lifting DP A - G	7-15.DP.SB3.SS9.PS		3.23			0.537 x w	1.731	1	1.73	103.92
2	Fiting DP A ke B	7-15.DP.SB3.SS9.PS	5.7			0.067 x l		0.38	1	0.38	22.91
3	Fiting DP B ke C	7-15.DP.SB3.SS9.PS	5.7			0.067 x l		0.38	1	0.38	22.91
4	Fiting DP C ke D	7-15.DP.SB3.SS9.Sb	5.7			0.067 x l		0.38	1	0.38	22.91
5	Fiting DP D ke E	7-15.DP.SB3.SS9.Sb	5.7			0.067 x l		0.38	1	0.38	22.91
6	Fiting DP E ke F	7-15.DP.SB3.SS9.Sb	5.7			0.067 x l		0.38	1	0.38	22.91
7	Fiting DP F ke G	7-15.DP.SB3.SS9.Sb	5.7			0.067 x l		0.38	1	0.38	22.91
8	Welding DP A ke B	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
9	Welding DP B ke C	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
10	Welding DP C ke D	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
11	Welding DP D ke E	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
12	Welding DP E ke F	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
13	Welding DP F ke G	7-15.DP.SB3.SS9.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
14	Lifting Cantilever ke WF	7.BW.SB3.SS9.Sb		0.003			0.537 x w	0.001	1	0.00	0.09
15	Fiting Cantilever ke WF	7.BW.SB3.SS9.Sb	0.15			0.067 x l		0.01	1	0.01	0.60
16	Welding Cantilever ke WF	7.BW.SB3.SS9.Sb	0.15		0.133 x l			0.02	2	0.01	0.60
17	Lifting DL	7-15. DL. SB3.SS9		0.279			0.537 x w	0.149	1	0.15	9.00
18	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91
19	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91
20	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91
21	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENTIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
22	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91
23	Fiting DL ke DP	7-15. DL. SB3.SS9	5.7			0.067 x l		0.38	1	0.38	22.91
24	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
25	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
26	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
27	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
28	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
29	Welding DL ke DP	7-15. DL. SB3.SS9	11.4		0.133 x l			1.52	2	0.76	45.49
30	Lifting DT SB & PS	DT.SB3.SS9.SB&PS		0.247				0.132 4	1	0.13	7.94
31	Fiting DT Sb ke DP	8.DT.SB3.SS9.Sb	4.48			0.067 x l		0.30	1	0.30	18.01
32	Fiting DT Sb ke DP	9.DT.SB3.SS9.Sb	4.48			0.067 x l		0.30	1	0.30	18.01
33	Fiting DT Sb ke DP	11.DT.SB3.SS9.Sb	2.97			0.067 x l		0.20	1	0.20	11.93
34	Fiting DT Sb ke DP	12.DT.SB3.SS9.Sb	2.97			0.067 x l		0.20	1	0.20	11.93
35	Fiting DT Sb ke DP	14.DT.SB3.SS9.Sb	2.97			0.067 x l		0.20	1	0.20	11.93
36	Fiting DT Sb ke DP	15.DT.SB3.SS9.Sb	2.97			0.067 x l		0.20	1	0.20	11.93
37	Fiting DT PS ke DP	8.DT.SB3.SS9.PS	4.48			0.067 x l		0.30	1	0.30	18.01
38	Fiting DT PS ke DP	9.DT.SB3.SS9.PS	4.48			0.067 x l		0.30	1	0.30	18.01
39	Fiting DT PS ke DP	11.DT.SB3.SS9.PS	2.97			0.067 x l		0.20	1	0.20	11.93
40	Fiting DT PS ke DP	12.DT.SB3.SS9.PS	2.97			0.067 x l		0.20	1	0.20	11.93
41	Fiting DT PS ke DP	14.DT.SB3.SS9.PS	2.97			0.067 x l		0.20	1	0.20	11.93
42	Fiting DT PS ke DP	15.DT.SB3.SS9.PS	2.97			0.067 x l		0.20	1	0.20	11.93
43	Welding DT Sb ke DP	8.DT.SB3.SS9.Sb	8.96		0.133 x l			1.19	2	0.60	35.75
44	Welding DT Sb ke DP	9.DT.SB3.SS9.Sb	8.96		0.133 x l			1.19	2	0.60	35.75
45	Welding DT Sb ke DP	11.DT.SB3.SS9.Sb	5.94		0.133 x l			0.79	2	0.39	23.68
46	Welding DT Sb ke DP	12.DT.SB3.SS9.Sb	5.94		0.133 x l			0.79	2	0.39	23.68
47	Welding DT Sb ke DP	14.DT.SB3.SS9.Sb	5.94		0.133 x l			0.79	2	0.39	23.68
48	Welding DT Sb ke DP	15.DT.SB3.SS9.Sb	5.94		0.133 x l			0.79	2	0.39	23.68
49	Welding DT PS ke DP	8.DT.SB3.SS9.PS	8.96		0.133 x l			1.19	2	0.60	35.75



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENTIT
50	Welding DT PS ke DP	9.DT.SB3.SS9.PS	8.96		0.133 x l			1.19	2	0.60	35.75
51	Welding DT PS ke DP	11.DT.SB3.SS9.PS	5.94		0.133 x l			0.79	2	0.39	23.68
52	Welding DT PS ke DP	12.DT.SB3.SS9.PS	5.94		0.133 x l			0.79	2	0.39	23.68
53	Welding DT PS ke DP	14.DT.SB3.SS9.PS	5.94		0.133 x l			0.79	2	0.39	23.68
54	Welding DT PS ke DP	15.DT.SB3.SS9.PS	5.94		0.133 x l			0.79	2	0.39	23.68
55	Lifting Girder & DT Sb&PS	7,10,13.WF.SB3.SS9.Sb&PS		0.926			0.537 x w	0.497 1	1	0.50	29.83
56	Fiting Girder & DT Sb ke DP	7.WF.SB3.SS9.Sb	9			0.067 x l		0.60	1	0.60	36.18
57	Fiting Girder & DT Sb ke DP	10.WF.SB3.SS9.Sb	9			0.067 x l		0.60	1	0.60	36.18
58	Fiting Girder & DT Sb ke DP	13.WF.SB3.SS9.Sb	9			0.067 x l		0.60	1	0.60	36.18
59	Fiting Girder & DT PS ke DP	7.WF.SB3.SS9.PS	9			0.067 x l		0.60	1	0.60	36.18
60	Fiting Girder & DT PS ke DP	10.WF.SB3.SS9.PS	9			0.067 x l		0.60	1	0.60	36.18
61	Fiting Girder & DT PS ke DP	13.WF.SB3.SS9.PS	9			0.067 x l		0.60	1	0.60	36.18
62	Welding Girder & DT Sb ke DP	7.WF.SB3.SS9.Sb	18		0.133 x l			2.39	2	1.20	71.82
63	Welding Girder & DT Sb ke DP	10.WF.SB3.SS9.Sb	18		0.133 x l			2.39	2	1.20	71.82
64	Welding Girder & DT Sb ke DP	13.WF.SB3.SS9.Sb	18		0.133 x l			2.39	2	1.20	71.82
65	Welding Girder & DT PS ke DP	7.WF.SB3.SS9.PS	18		0.133 x l			2.39	2	1.20	71.82
66	Welding Girder & DT PS ke DP	10.WF.SB3.SS9.PS	18		0.133 x l			2.39	2	1.20	71.82
67	Welding Girder & DT PS ke DP	13.WF.SB3.SS9.PS	18		0.133 x l			2.39	2	1.20	71.82
68	Lifting Brack. of DT SB & PS	BDT.SB3.SS9.SB&PS		0.096			0.537 x w	0.052	1	0.05	3.10
69	Fiting Brack. of DT Sb ke DT	8.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
70	Fiting Brack. of DT Sb ke DT	9.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
71	Fiting Brack. of DT Sb ke DT	11.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
72	Fiting Brack. of DT Sb ke DT	12.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
73	Fiting Brack. of DT Sb ke DT	14.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
74	Fiting Brack. of DT Sb ke DT	15.BDT.SB3.SS9.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
75	Fiting Brack. of DT PS ke DT	8.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02
76	Fiting Brack. of DT PS ke DT	9.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02
77	Fiting Brack. of DT PS ke DT	11.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
78	Fiting Brack. of DT PS ke DT	12.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02
79	Fiting Brack. of DT PS ke DT	14.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02
80	Fiting Brack. of DT PS ke DT	15.BDT.SB3.SS9.PS	0.75			0.067 x l		0.05	1	0.05	3.02
81	Welding Brack. of DT Sb ke DT	8.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
82	Welding Brack. of DT Sb ke DT	9.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
83	Welding Brack. of DT Sb ke DT	11.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
84	Welding Brack. of DT Sb ke DT	12.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
85	Welding Brack. of DT Sb ke DT	14.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
86	Welding Brack. of DT Sb ke DT	15.BDT.SB3.SS9.Sb	0.75		0.133 x l			0.10	2	0.05	2.99
87	Welding Brack. of DT PS ke DT	8.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
88	Welding Brack. of DT PS ke DT	9.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
89	Welding Brack. of DT PS ke DT	11.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
90	Welding Brack. of DT PS ke DT	12.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
91	Welding Brack. of DT PS ke DT	14.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
92	Welding Brack. of DT PS ke DT	15.BDT.SB3.SS9.PS	0.75		0.133 x l			0.10	2	0.05	2.99
JUMLAH			510.49	4.78						36.60	2195.93

SB 2 (PORT SIDE) PANEL 4 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G, I, J, K	0.903					0.903	1
2			Fiting SP G ke I	0.382			0.382	1
3			Fiting SP I ke J	0.382	Welding SP G ke I	0.758	0.758	3
4			Fiting SP J ke K	0.382	Welding SP I ke J	0.758	0.758	3
5					Welding SP J ke K	0.758	0.758	2
6	Lifting MF 0,1,3,4,5,6	0.087					0.087	1
7			Fiting MF ke SP	1.841			1.841	1
8					Welding MF ke SP	1.827	1.827	2



SB 2 (PORT SIDE) PANEL 4 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
9	Lifting WF -2,(-1),2	0.25					0.255	1
10			Fiting WF ke SP	0.588			0.588	1
11					Welding WF ke SP	1.168	1.168	2
12	Lifting Brack. of MF 0,1,3,4,5,6	0.014					0.014	1
13			Fiting Brack. of MF ke MF	0.168			0.168	1
14					Welding Brack. of MF ke MF	0.166	0.166	2
<b>TOTAL</b>		<b>1.260</b>		<b>3.743</b>		<b>5.436</b>	<b>9.674</b>	<b>5</b>

SB 2 (PORT SIDE), PANEL 3 LONGI. BULKHEAD								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting S A-H	0.924					0.924	1
2			Fiting S A ke B	0.177			0.177	1
3			Fiting S C ke D	0.161	Welding S A ke B	0.352	0.352	3
4			Fiting S D ke E	0.161	Welding S C ke D	0.319	0.319	3
5			Fiting S E ke F	0.161	Welding S D ke E	0.319	0.319	3
6			Fiting S G ke S CDEF	0.315	Welding S E ke F	0.319	0.319	3
7			Fiting S H ke S CDEF	0.315	Welding S G ke S CDEF	0.625	0.625	3
8					Welding S H ke S CDEF	0.625	0.625	2
9	Lifting ST 8-14	0.114					0.114	1
10			Fiting ST ke S	2.000			2.000	1
11					Fiting ST ke S	3.110	3.110	2
12	Lifting Brack. of ST	0.005					0.005	1
13			Fiting Brack. of ST ke ST	0.251			0.251	1
14					Fiting Brack. of ST ke ST	0.249	0.249	2
<b>TOTAL</b>		<b>1.042</b>		<b>3.541</b>		<b>5.919</b>	<b>9.390</b>	<b>5</b>



PERAKITAN SUB-BLOCK 2 (PORT SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 Longi. Bulkhead	0.92					0.92	1
2			Fiting Panel 2 ke Panel 1	0.63			0.63	1
3					Welding Bulkhead ke SP	1.25	1.25	2
<b>TOTAL</b>		<b>0.924</b>		<b>0.630</b>		<b>1.250</b>	<b>2.804</b>	<b>5</b>

SB 3 (DECK), PANEL 5								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	1.732					1.732	1
2			Fiting DP A ke B	0.382			0.382	1
3			Fiting DP B ke C	0.382	Welding DP A ke B	0.758	0.758	3
4			Fiting DP C ke D	0.382	Welding DP B ke C	0.758	0.758	3
5			Fiting DP D ke E	0.382	Welding DP C ke D	0.758	0.758	3
6			Fiting DP E ke F	0.382	Welding DP D ke E	0.758	0.758	3
7			Fiting DP F ke G	0.382	Welding DP E ke F	0.758	0.758	3
8					Welding DP F ke G	0.758	0.758	2
	Lifting Cantilever ke WF	0.001					0.001	1
			Fiting Cantilever ke WF	0.010			0.010	1
					Welding Cantilever ke WF	0.010	0.010	2
9	Lifting DL	0.758					0.758	1
10			Fiting DL ke DP	2.291			2.291	1
11					Welding DL ke DP	4.549	4.549	2
12	Lifting DT SB & PS	0.132					0.132	1
13			Fiting DT Sb ke DP	1.396			1.396	1
14			Fiting DT PS ke DP	1.40	Fiting DT Sb ke DP	2.771	2.771	3



SB 3 (DECK), PANEL 5								
N O	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
15					Fiting DT PS ke DP	2.77	2.771	2
16	Lifting Girder & DT Sb&PS	0.497					0.497	1
			Fiting Girder & DT Sb ke DP	1.809			1.809	1
			Fiting Girder & DT PS ke DP	1.809	Fiting Girder & DT Sb ke DP	3.59	3.591	3
					Fiting Girder & DT PS ke DP	3.59	3.591	2
	Lifting Brack. of DT SB & PS	0.052					0.052	1
			Fiting Brack. of DT Sb ke DT	0.302			0.302	1
			Fiting Brack. of DT PS ke DT	0.302	Fiting Brack. of DT Sb ke DT	0.30	0.299	3
					Fiting Brack. of DT PS ke DT	0.30	0.299	2
	<b>TOTAL</b>	<b>3.173</b>		<b>11.605</b>		<b>19.397</b>	<b>31.791</b>	<b>5</b>

PERAKITAN SB 2+3								
N O	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
	Lifting Sub Block 2	2.18					2.18	1
			Fiting SB 3 ke SB1	1.06			1.06	1
					Welding DP ke SP (SB2)	0.76	0.76	2
					Welding BP ke DP SB 2	0.72	0.72	2
					Welding Brack. of SB2 ke SB3	0.32	0.32	2
	<b>TOTAL</b>	<b>2.18</b>		<b>1.06</b>		<b>1.79</b>	<b>5.04</b>	<b>5</b>





SB 1 (STARBOARD) PANEL 1 (SIDE)								
N O	LIFTING		FITTING		WELDING		DURASI REAL	TENAG A KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G, I, J, K	0.903					0.903	1
2			Fiting SP G ke I	0.382			0.382	1
3			Fiting SP I ke J	0.382	Welding SP G ke I	0.758	0.758	3
4			Fiting SP J ke K	0.382	Welding SP I ke J	0.758	0.758	3
5					Welding SP J ke K	0.758	0.758	2
6	Lifting MF 0,1,3,4,5,6	0.087					0.087	1
7			Fiting MF ke SP	1.841			1.841	1
8					Welding MF ke SP	1.827	1.827	2
9	Lifting WF -2,(-1),2	0.25					0.255	1
10			Fiting WF ke SP	0.588			0.588	1
11					Welding WF ke SP	1.168	1.168	2
12	Lifting Brack. of MF 0,1,3,4,5,6	0.014					0.014	1
13			Fiting Brack. of MF ke MF	0.168			0.168	1
14					Welding Brack. of MF ke MF	0.166	0.166	2
<b>TOTAL</b>		<b>1.260</b>		<b>3.743</b>		<b>5.436</b>	<b>9.674</b>	<b>5</b>

SB 1 (STARBOARD) PANEL 2. LONGI. BULKHEAD								
N O	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting S A-H	0.924					0.924	1
2			Fiting S A ke B	0.177			0.177	1
3			Fiting S C ke D	0.161	Welding S A ke B	0.352	0.352	3
4			Fiting S D ke E	0.161	Welding S C ke D	0.319	0.319	3
5			Fiting S E ke F	0.161	Welding S D ke E	0.319	0.319	3
6			Fiting S G ke S CDEF	0.315	Welding S E ke F	0.319	0.319	3



SB 1 (STARBOARD) PANEL 2. LONGI. BULKHEAD								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
7			Fiting S H ke S CDEF	0.315	Welding S G ke S CDEF	0.625	0.625	3
8					Welding S H ke S CDEF	0.625	0.625	2
9	Lifting ST 8-14	0.114					0.114	1
10			Fiting ST ke S	2.000			2.000	1
11					Fiting ST ke S	3.110	3.110	2
12	Lifting Brack. of ST 8,9,11,12,14	0.005					0.005	1
13			Fiting Brack. of ST ke ST	0.251			0.251	1
14					Fiting Brack. of ST ke ST	0.249	0.249	2
<b>TOTAL</b>		<b>1.042</b>		<b>3.541</b>		<b>5.919</b>	<b>9.390</b>	<b>5</b>

PERAKITAN SUB-BLOCK 1 (STARBOARD)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 Longi. Bulkhead	0.92					0.92	1
2			Fiting Panel 2 ke Panel 1	0.63			0.63	1
3					Welding Bulkhead ke SP	1.25	1.25	2
<b>TOTAL</b>		<b>0.924</b>		<b>0.630</b>		<b>1.250</b>	<b>2.804</b>	<b>5</b>

PERAKITAN BLOK 10								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SB 1	2.18					2.18	1
2		2.56					2.56	1



3		Fiting SB 3 ke SB1	1.06			1.06	2
4				Welding DP ke SP (SB1)	0.76	0.76	2
5				Welding BP ke DP SB 1	0.72	0.72	2
				Welding Brack. of SB1 ke SB3	0.32	0.32	2
<b>TOTAL</b>		<b>4.747</b>	<b>1.062</b>		<b>1.792</b>	<b>7.60</b>	<b>5</b>

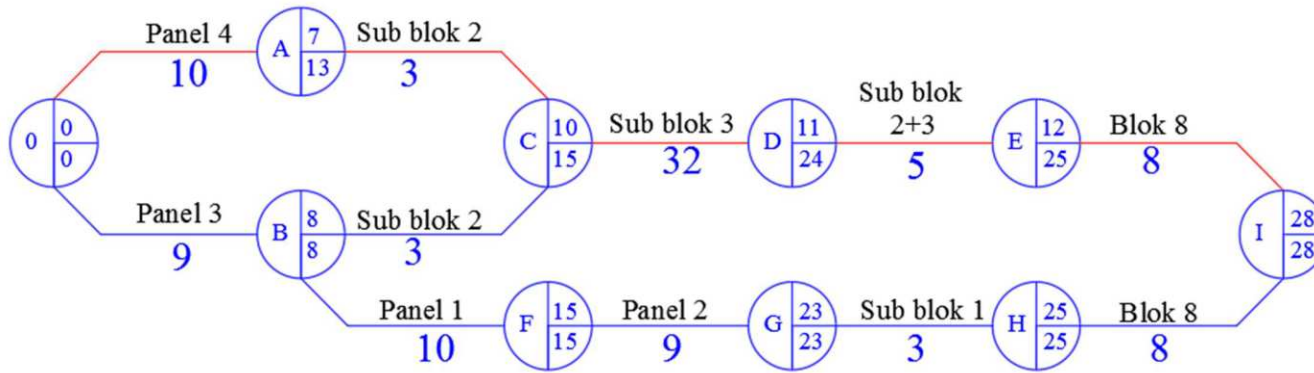
### B. Hubungan Ketergantungan

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan panel 4	-	10	5	0	10	0	10	Ya
B	Perakitan panel 3	-	9	5	0	9	1	10	Tidak
C	Perakitan sub blok 2	A, B	3	5	10	13	10	13	Ya
D	Perakitan Sub blok 3	C	32	5	13	45	13	45	Ya
E	Perakitan SB 2+3	D	5	5	45	50	45	50	Ya
F	Perakitan panel 1	B	10	5	9	19	28	38	Tidak
G	Perakitan panel 2	F	9	5	19	28	38	47	Tidak
H	Perakitan Sub blok 1	G	3	5	28	31	47	50	Tidak
I	Perakitan blok 9	E, H	8	5	50	58	50	58	Ya



C. Jaringan kerja blok 9

Jalur kritis blok 9 = A-C-D-E-I





# BLOK 10



## A. Perhitungan dan perakitan blok 10

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
<b>PANEL 1 SIDE</b>											
1	Lifting SP G , I, J, K	16-25.SP.SB1.SS10.Sb(G)		1.63			0.537 x w	0.87	1	0.87	52.48
2	Fiting SP G ke SP I	16-25.SP.SB1.SS10.Sb(G)	5.7			0.067 x l		0.38	1	0.38	22.91
3	Fiting SP I ke SP J	16-25.SP.SB1.SS10.Sb(I)	5.7			0.067 x l		0.38	1	0.38	22.91
4	Fiting SP J ke SP K	16-25.SP.SB1.SS10.Sb(J)	5.7			0.067 x l		0.38	1	0.38	22.91
5	Welding SP G ke SP I	16-25.SP.SB1.SS10.Sb(G)	11.4		0.133 x l			0.58	2	0.29	17.52
6	Welding SP I ke SP J	16-25.SP.SB1.SS10.Sb(I)	11.4		0.133 x l			0.58	2	0.29	17.52
7	Welding SP J ke SP K	16-25.SP.SB1.SS10.Sb(J)	11.4		0.133 x l			0.58	2	0.29	17.52
8	Lifting WF 16,19,22,25	WF.SB1.SS10.Sb		0.509			0.537 x w	0.27	1	0.27	16.41
9	Fiting WF ke SP	16.WF.SB1.SS10.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
10	Fiting WF ke SP	19.WF.SB1.SS10.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
11	Fiting WF ke SP	22.WF.SB1.SS10.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
12	Fiting WF ke SP	25.WF.SB1.SS10.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
13	Welding WF ke SP	16.WF.SB1.SS10.Sb	8.78		0.133 x l			0.61	2	0.30	18.27
14	Welding WF ke SP	19.WF.SB1.SS10.Sb	8.78		0.133 x l			0.61	2	0.30	18.27
15	Welding WF ke SP	22.WF.SB1.SS10.Sb	8.78		0.133 x l			0.61	2	0.30	18.27
16	Welding WF ke SP	25.WF.SB1.SS10.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
17	Lifting MF 17,18,20,21,23,25	MF.SB1.SS10.Sb		0.16			0.537 x w	0.09	1	0.09	5.16
18	Fiting MF ke SP	17.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
19	Fiting MF ke SP	18.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
20	Fiting MF ke SP	20.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
21	Fiting MF ke SP	21.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
22	Fiting MF ke SP	23.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
23	Fiting MF ke SP	24.MF.SB1.SS10.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
24	Welding MF ke SP	17.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
25	Welding MF ke SP	18.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
26	Welding MF ke SP	20.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
27	Welding MF ke SP	21.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
28	Welding MF ke SP	23.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
29	Welding MF ke SP	24.MF.SB1.SS10.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
30	Lifting Bracket of MF 17,18,20,21,23,25	17,18,20,21,23,25.MF.SB1.SS10.Sb		0.016			0.537 x w	0.01	1	0.01	0.5174
31	Fiting Bracket of MF ke MF	17.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
32	Fiting Bracket of MF ke MF	18.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
33	Fiting Bracket of MF ke MF	20.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
34	Fiting Bracket of MF ke MF	21.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
35	Fiting Bracket of MF ke MF	23.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
36	Fiting Bracket of MF ke MF	24.MF.SB1.SS10.Sb	0.25			0.067 x l		0.02	1	0.02	1.005
37	Welding Bracket of MF ke MF	17.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
38	Welding Bracket of MF ke MF	18.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
39	Welding Bracket of MF ke MF	20.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
40	Welding Bracket of MF ke MF	21.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
41	Welding Bracket of MF ke MF	23.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
42	Welding Bracket of MF ke MF	24.MF.SB1.SS10.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
JUMLAH			161.94	2.31						9.81	588.43
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL 2 SIDE											



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
<b>SUB BLOCK 3 ( DECK)</b>											
PANEL 3 DECK											
1	Lifting DP A -E	16-25.DP.SB3.SS10.PS		3.23			0.537 x w	1.73	1	1.73	103.92
2	Fiting DP A ke DPB	16-25.DP.SB3.SS10.PS	0.25			0.067 x l		0.02	1	0.02	1.01
3	Fiting DP B ke DPC	16-25.DP.SB3.SS10.PS	0.25			0.067 x l		0.02	1	0.02	1.01
4	Fiting DP C ke DPD	16-25.DP.SB3.SS10.SB	0.25			0.067 x l		0.02	1	0.02	1.01
5	Fiting DP D ke DPE	16-25.DP.SB3.SS10.SB	0.25			0.067 x l		0.02	1	0.02	1.01
6	Welding DP A ke DPB	16-25.DP.SB3.SS10	0.5		0.133 x l			0.07	2	0.03	2.00
7	Welding DP B ke DPC	16-25.DP.SB3.SS10	0.5		0.133 x l			0.07	2	0.03	2.00
8	Welding DP C ke DPD	16-25.DP.SB3.SS10	0.5		0.133 x l			0.07	2	0.03	2.00
9	Welding DP D ke DPE	16-25.DP.SB3.SS10	0.5		0.133 x l			0.07	2	0.03	2.00
10	Lifting DL ke DP	15-25.DL.SB3.SS10		0.396			0.537 x w	0.21	1	0.21	12.75
11	Fiting DL ke DP	15-25.DL.SB3.SS10	18			0.067 x l		1.21	1	1.21	72.36
12	Welding DL ke DP	15-25.DL.SB3.SS10	45.98		0.133 x l			6.12	2	3.06	183.48
13	Lifting DT SB & PS	DT.SB3.SS10.Sb&PS		0.310			0.537 x w	0.17	1	0.17	9.97
14	Fiting DT Sb ke DP	17.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
15	Fiting DT Sb ke DP	18.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
16	Fiting DT Sb ke DP	20.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
17	Fiting DT Sb ke DP	21.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
18	Fiting DT Sb ke DP	23.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
19	Fiting DT Sb ke DP	24.DT.SB3.SS10.Sb	4.42			0.067 x l		0.30	1	0.30	17.78
20	Fiting DT PS ke DP	17.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
21	Fiting DT PS ke DP	18.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
22	Fiting DT PS ke DP	20.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
23	Fiting DT PS ke DP	21.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
24	Fiting DT PS ke DP	23.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
25	Fiting DT PS ke DP	24.DT.SB3.SS10.PS	4.42			0.067 x l		0.30	1	0.30	17.78
26	Welding DT Sb ke DP	17.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29
27	Welding DT Sb ke DP	18.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29





NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
28	Welding DT Sb ke DP	20.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29
29	Welding DT Sb ke DP	21.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29
30	Welding DT Sb ke DP	23.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29
31	Welding DT Sb ke DP	24.DT.SB3.SS10.Sb	8.84		0.133 x l			1.18	2	0.59	35.29
32	Welding DT PS ke DP	17.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
33	Welding DT PS ke DP	18.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
34	Welding DT PS ke DP	20.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
35	Welding DT PS ke DP	21.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
36	Welding DT PS ke DP	23.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
37	Welding DT PS ke DP	24.DT.SB3.SS10.PS	8.84		0.133 x l			1.18	2	0.59	35.29
38	Lifting Bracket of DT SB & PS	BDT.SB3.SS10.Sb&PS		0.096			0.537 x w	0.05	1	0.05	3.10
39	Fiting Bracket of DT Sb ke DT	17.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
40	Fiting Bracket of DT Sb ke DT	18.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
41	Fiting Bracket of DT Sb ke DT	20.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
42	Fiting Bracket of DT Sb ke DT	21.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
43	Fiting Bracket of DT Sb ke DT	23.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
44	Fiting Bracket of DT Sb ke DT	24.BDT.SB3.SS10.Sb	0.75			0.067 x l		0.05	1	0.05	3.02
45	Fiting Bracket of DT PS ke DT	17.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
46	Fiting Bracket of DT PS ke DT	18.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
47	Fiting Bracket of DT PS ke DT	20.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
48	Fiting Bracket of DT PS ke DT	21.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
49	Fiting Bracket of DT PS ke DT	23.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
50	Fiting Bracket of DT PS ke DT	24.BDT.SB3.SS10.PS	0.75			0.067 x l		0.05	1	0.05	3.02
51	Welding Bracket of DT Sb ke DT	17.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99
52	Welding Bracket of DT Sb ke DT	18.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99
53	Welding Bracket of DT Sb ke DT	20.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99
54	Welding Bracket of DT Sb ke DT	21.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99
55	Welding Bracket of DT Sb ke DT	23.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99
56	Welding Bracket of DT Sb ke DT	24.BDT.SB3.SS10.Sb	1.5		0.133 x l			0.20	2	0.10	5.99



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
57	Welding Bracket of DT PS ke DT	17.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
58	Welding Bracket of DT PS ke DT	18.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
59	Welding Bracket of DT PS ke DT	20.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
60	Welding Bracket of DT PS ke DT	21.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
61	Welding Bracket of DT PS ke DT	23.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
62	Welding Bracket of DT PS ke DT	24.BDT.SB3.SS10.PS	1.5		0.133 x l			0.20	2	0.10	5.99
63	Lifting Girder & DT Sb&PS	WF.SB3.SS10.Sb		1.716			0.537 x w	0.92	1	0.92	55.31
64	Fiting Girder & DT Sb ke DP	16.WF.SB3.SS10.Sb	9.00			0.067 x l		0.60	1	0.60	36.18
65	Fiting Girder & DT Sb ke DP	19.WF.SB3.SS10.Sb	9.00			0.067 x l		0.60	1	0.60	36.18
66	Fiting Girder & DT Sb ke DP	22.WF.SB3.SS10.Sb	9.00			0.067 x l		0.60	1	0.60	36.18
67	Fiting Girder & DT Sb ke DP	25.WF.SB3.SS10.Sb	9.00			0.067 x l		0.60	1	0.60	36.18
68	Fiting Girder & DT PS ke DP	16.WF.SB3.SS10.PS	9.00			0.067 x l		0.60	1	0.60	36.18
69	Fiting Girder & DT PS ke DP	19.WF.SB3.SS10.PS	9.00			0.067 x l		0.60	1	0.60	36.18
70	Fiting Girder & DT PS ke DP	22.WF.SB3.SS10.PS	9.00			0.067 x l		0.60	1	0.60	36.18
71	Fiting Girder & DT PS ke DP	25.WF.SB3.SS10.PS	9.00			0.067 x l		0.60	1	0.60	36.18
72	Welding Girder & DT Sb ke DP	16.WF.SB3.SS10.Sb	18.00		0.133 x l			2.39	2	1.20	71.82
73	Welding Girder & DT Sb ke DP	19.WF.SB3.SS10.Sb	18.00		0.133 x l			2.39	2	1.20	71.82
74	Welding Girder & DT Sb ke DP	22.WF.SB3.SS10.Sb	18.00		0.133 x l			2.39	2	1.20	71.82
75	Welding Girder & DT Sb ke DP	25.WF.SB3.SS10.Sb	18.00		0.133 x l			2.39	2	1.20	71.82
76	Welding Girder & DT PS ke DP	16.WF.SB3.SS10.PS	18.00		0.133 x l			2.39	2	1.20	71.82
77	Welding Girder & DT PS ke DP	19.WF.SB3.SS10.PS	18.00		0.133 x l			2.39	2	1.20	71.82
78	Welding Girder & DT PS ke DP	22.WF.SB3.SS10.PS	18.00		0.133 x l			2.39	2	1.20	71.82
79	Welding Girder & DT PS ke DP	25.WF.SB3.SS10.PS	18.00		0.133 x l			2.39	2	1.20	71.82
80	Lifting Cantilever 16,19,22,25	BW.SB1.SS10.Sb&PS		0.043			0.537 x w	0.02	1	0.02	1.38
81	Fiting Cantilever Sb	16.BW.SB1.SS10.Sb	0.22			0.067 x l		0.01	1	0.01	0.89
82	Fiting Cantilever Sb	19.BW.SB1.SS10.Sb	0.22			0.067 x l		0.01	1	0.01	0.89
83	Fiting Cantilever Sb	22.BW.SB1.SS10.Sb	0.22			0.067 x l		0.01	1	0.01	0.89
84	Fiting Cantilever Sb	25.BW.SB1.SS10.Sb	0.22			0.067 x l		0.01	1	0.01	0.89
85	Welding Cantilever Sb	16.BW.SB1.SS10.Sb	0.26		0.133 x l			0.03	2	0.02	1.04



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Tenaga Kerja	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
86	Welding Cantilever Sb	19.BW.SB1.SS10.Sb	0.26		0.133 x l			0.03	2	0.02	1.04
87	Welding Cantilever Sb	22.BW.SB1.SS10.Sb	0.26		0.133 x l			0.03	2	0.02	1.04
88	Welding Cantilever Sb	25.BW.SB1.SS10.Sb	0.26		0.133 x l			0.03	2	0.02	1.04
89	Fiting Cantilever PS	16.BW.SB2.SS10.PS	0.22			0.067 x l		0.01	1	0.01	0.89
90	Fiting Cantilever PS	19.BW.SB2.SS10.PS	0.22			0.067 x l		0.01	1	0.01	0.89
91	Fiting Cantilever PS	22.BW.SB2.SS10.PS	0.22			0.067 x l		0.01	1	0.01	0.89
92	Fiting Cantilever PS	25.BW.SB2.SS10.PS	0.22			0.067 x l		0.01	1	0.01	0.89
93	Welding Cantilever PS	16.BW.SB2.SS10.PS	0.26		0.133 x l			0.03	2	0.02	1.04
94	Welding Cantilever PS	19.BW.SB2.SS10.PS	0.26		0.133 x l			0.03	2	0.02	1.04
95	Welding Cantilever PS	22.BW.SB2.SS10.PS	0.26		0.133 x l			0.03	2	0.02	1.04
96	Welding Cantilever PS	25.BW.SB2.SS10.PS	0.26		0.133 x l			0.03	2	0.02	1.04
JUMLAH			473.02	5.79						34.64	2078.44

### SUB BLOCK 3 (DECK) PANEL 3

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A -E	1.73					1.73	1
2			Fiting DP A ke DPB	0.02			0.02	1
3			Fiting DP B ke DPC	0.02	Welding DP A ke DPB	0.03	0.03	3
4			Fiting DP C ke DPD	0.02	Welding DP B ke DPC	0.03	0.03	3
5			Fiting DP D ke DPE	0.02	Welding DP C ke DPD	0.03	0.03	3
6					Welding DP D ke DPE	0.03	0.03	2
7	Lifting DL ke DP	0.21					0.21	1
8			Fiting DL ke DP	1.21			1.21	1
9					Welding DL ke DP	3.06	3.06	2
10	Lifting DT SB & PS	0.17					0.17	1
11			Fiting DT Sb ke DP	1.78			1.78	1



SUB BLOCK 3 (DECK) PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
12			Fiting DT PS ke DP	1.78	Welding DT Sb ke DP	3.53	3.53	3
13					Welding DT PS ke DP	3.53	3.53	2
14	Lifting Bracket of DT SB & PS	0.05					0.05	1
15			Fiting Bracket of DT Sb ke DT	0.30			0.30	1
16			Fiting Bracket of DT PS ke DT	0.30	Welding Bracket of DT Sb ke DT	0.60	0.60	3
17					Welding Bracket of DT PS ke DT	0.60	0.60	2
18	Lifting Girder & DT Sb&PS	0.92					0.92	1
19			Fiting Girder & DT Sb ke DP	2.41			2.41	1
20			Fiting Girder & DT PS ke DP	2.41	Welding Girder & DT Sb ke DP	4.79	4.79	3
21					Welding Girder & DT PS ke DP	4.79	4.79	1
22	Lifting Cantilever 16,19,22,25	0.05					0.05	1
23			Fiting Cantilever Sb	0.06			0.06	1
24			Fiting Cantilever PS	0.06	Welding Cantilever Sb	0.07	0.07	3
25					Welding Cantilever PS	0.07	0.07	2
	<b>TOTAL</b>	<b>3.136</b>		<b>10.374</b>		<b>21.160</b>	<b>30.069</b>	<b>5</b>

SUB BLOCK 2 (PORT SIDE) PANEL 2 SIDE								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G , I, J, K	0.87					0.87	1
2			Fiting SP G ke SP I	0.38			0.38	1
3			Fiting SP I ke SP J	0.38	Welding SP G ke SP I	0.29	0.29	2



4		Fiting SP J ke SP K	0.38	Welding SP I ke SP J	0.29	0.29	2
5				Welding SP J ke SP K	0.29	0.29	2
6	Lifting WF 16,19,22,25		0.27			0.27	1
7		Fiting WF ke SP	1.18			1.18	1
8				Welding WF ke SP	1.50	1.50	2
9	Lifting Bracket of MF		0.01			0.01	1
10		Fiting Bracket of MF ke MF	0.10			0.10	1
11				Welding Bracket of MF ke MF	0.10	0.10	2
<b>TOTAL</b>			<b>1.157</b>		<b>2.423</b>	<b>2.473</b>	<b>5</b>

PERAKITAN SB 2+3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 3 (Deck)	1.55					1.55	1
2			Fiting SB 3 ke SB1	0.58			0.58	1
3					Welding DP ke Side Plate	0.76	0.76	2
4					Welding Bracket of SB1 ke SB3	0.76	0.76	2
<b>TOTAL</b>		<b>1.55</b>		<b>0.58</b>		<b>1.52</b>	<b>3.65</b>	<b>5</b>

SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G , I, J, K	0.87					0.87	1
2			Fiting SP G ke SP I	0.38			0.38	1
3			Fiting SP I ke SP J	0.38	Welding SP G ke SP I	0.29	0.29	2
4			Fiting SP J ke SP K	0.38	Welding SP I ke SP J	0.29	0.29	2
5					Welding SP J ke SP K	0.29	0.29	2



SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
6	Lifting WF 16,19,22,25	0.27					0.27	1
7			Fiting WF ke SP	1.18			1.18	1
8					Welding WF ke SP	1.50	1.50	2
9	Lifting Bracket of MF	0.01					0.01	1
10			Fiting Bracket of MF ke MF	0.10			0.10	1
11					Welding Bracket of MF ke MF	0.10	0.10	2
<b>TOTAL</b>		<b>1.157</b>		<b>2.423</b>		<b>2.473</b>	<b>5.289</b>	<b>5</b>

PERAKITAN BLOK 10								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 1	0.62					0.62	1
3			Fiting SB 3 ke SB1	0.58			0.58	1
4					Welding DP ke Side Plate	0.76	0.76	2
5					Welding Bracket of SB1 ke SB3	0.20	0.20	2
<b>TOTAL</b>		<b>0.621</b>		<b>0.583</b>		<b>0.958</b>	<b>2.162</b>	<b>5</b>

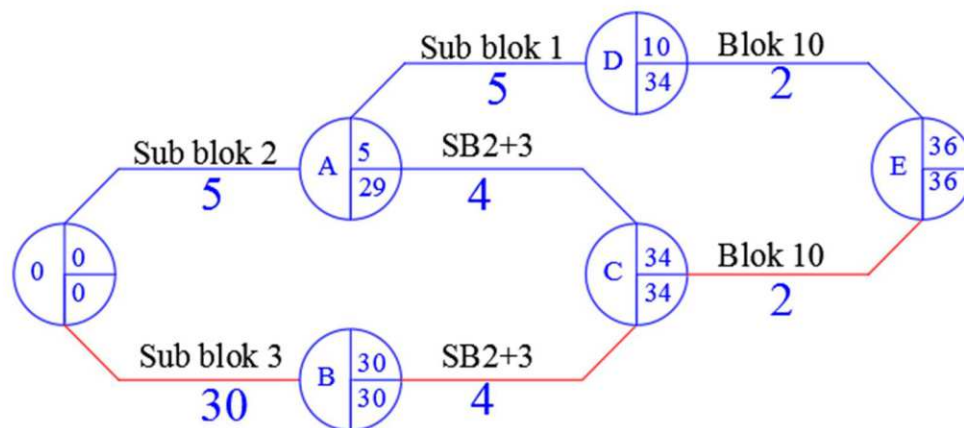


B. Hubungan Ketergantungan

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan sub blok 2	-	5	5	0	5	24	29	Tidak
B	Perakitan sub blok 3	-	30	5	0	30	0	30	Ya
C	Perakitan SB 2+3	A,B	4	5	30	34	30	34	Ya
D	Perakitan sub blok 1	A	5	5	5	10	29	34	Tidak
E	Perakitan blok 10	C,D	2	5	34	36	34	36	Ya

C. Jaringan kerja blok 10

Jalur kritis B-C-E





# BLOK 11





## A. Perhitungan dan perakitan blok 11

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP G , I, J, K	26-35.SP.SB1.SS11.Sb		1.752			0.537 x w	0.94	1	0.94	56.45
2	Fiting SP G ke I	26-35.SP.SB1.SS11.Sb	6			0.067 x l		0.40	1	0.40	24.12
3	Fiting SP I ke J	26-35.SP.SB1.SS11.Sb	6			0.067 x l		0.40	1	0.40	24.12
4	Fiting SP J ke K	26-35.SP.SB1.SS11.Sb	6			0.067 x l		0.40	1	0.40	24.12
5	Welding SP G ke I	26-35.SP.SB1.SS11.Sb	12		0.133 x l			1.60	2	0.80	47.88
6	Welding SP I ke J	26-35.SP.SB1.SS11.Sb	12		0.133 x l			1.60	2	0.80	47.88
7	Welding SP J ke K	26-35.SP.SB1.SS11.Sb	12					1.60	2	0.80	47.88
8	Lifting WF 28,31,34	28,31,34.WF.SB1.SS13.Sb		0.382			0.537 x w	0.21	1	0.21	12.31
9	Fiting WF ke SP	28.WF.SB1.SS13.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
10	Fiting WF ke SP	31.WF.SB1.SS13.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
11	Fiting WF ke SP	34.WF.SB1.SS13.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
12	Welding WF ke SP	28.WF.SB1.SS13.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
13	Welding WF ke SP	31.WF.SB1.SS13.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
14	Welding WF ke SP	34.WF.SB1.SS13.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
15	Lifting MF 26,27,29,30,32,33,35	BM.SB1.SS13.Sb		0.128			0.537 x w	0.07	1	0.07	4.13
16	Fiting MF ke SP	26.MF.SB1.SS13.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
17	Fiting MF ke SP	27.MF.SB1.SS13.Sb	4.58			0.067 x l		0.31	1	0.31	18.41
18	Fiting MF ke SP	29.MF.SB1.SS13.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
19	Fiting MF ke SP	30.MF.SB1.SS13.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
20	Fiting MF ke SP	32.MF.SB1.SS13.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
21	Fiting MF ke SP	33.MF.SB1.SS13.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
22	Fiting MF ke SP	35.MF.SB1.SS13.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
23	Welding MF ke SP	26.MF.SB1.SS13.Sb	4.58		0.133 x l			0.61	2	0.30	18.27
24	Welding MF ke SP	27.MF.SB1.SS13.Sb	4.58		0.133 x l			0.61	2	0.30	18.27



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
25	Welding MF ke SP	29.MF.SB1.SS13.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
26	Welding MF ke SP	30.MF.SB1.SS13.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
27	Welding MF ke SP	32.MF.SB1.SS13.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
28	Welding MF ke SP	33.MF.SB1.SS13.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
29	Welding MF ke SP	35.MF.SB1.SS13.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
30	Lifting Bracket of MF 26,27,29,30,32,33,35	BM.SB1.SS13.Sb		0.032			0.537 x w	0.02	1	0.02	1.03
31	Fiting Bracket of MF ke MF	26.MF.SB1.SS13.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
32	Fiting Bracket of MF ke MF	27.MF.SB1.SS13.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
33	Fiting Bracket of MF ke MF	29.MF.SB1.SS13.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
34	Fiting Bracket of MF ke MF	30.MF.SB1.SS13.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
35	Fiting Bracket of MF ke MF	32.MF.SB1.SS13.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
36	Fiting Bracket of MF ke MF	33.MF.SB1.SS13.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
37	Fiting Bracket of MF ke MF	35.MF.SB1.SS13.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
38	Welding Bracket of MF ke MF	26.MF.SB1.SS13.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
39	Welding Bracket of MF ke MF	27.MF.SB1.SS13.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
40	Welding Bracket of MF ke MF	29.MF.SB1.SS13.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
41	Welding Bracket of MF ke MF	30.MF.SB1.SS13.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
42	Welding Bracket of MF ke MF	32.MF.SB1.SS13.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
43	Welding Bracket of MF ke MF	33.MF.SB1.SS13.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
44	Welding Bracket of MF ke MF	35.MF.SB1.SS13.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
45	Lifting ST 28-35	28-35.ST.SB1.SS13.Sb		0.081			0.537 x w	0.04	1	0.04	2.60
46	Fiting ST 28-35	28-35.ST.SB1.SS13.Sb	4.39			0.067 x l		0.29	1	0.29	17.65



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
<b>SUB BLOCK 3</b>											
<b>PANEL 3 DECK</b>											
1	Lifting DP A-G	26-35.DP.SB3.SS11		3.39			0.537 x w	1.82	2	0.91	54.69
2	Fiting DP A ke B	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
3	Fiting DP B ke C	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
4	Fiting DP C ke D	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
5	Fiting DP D ke E	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
6	Fiting DP E ke F	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
7	Fiting DP F ke G	26-35.DP.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
8	Welding DP A ke B	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
9	Welding DP B ke C	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
10	Welding DP C ke D	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
11	Welding DP D ke E	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
12	Welding DP E ke F	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
13	Welding DP F ke G	26-35.DP.SB3.SS11	6		0.133 x l			0.80	4	0.20	11.97
14	Lifting Cantilever 28,31,34	28,31,34.BW.SB3.SS13.Sb		0.0161			0.537 x w	0.01	2	0.00	0.26
15	Fiting Cantilever Sb & PS	28.BW.SB3.SS13.Sb&PS	2.4			0.067 x l		0.16	2	0.08	4.82
16	Fiting Cantilever Sb & PS	31.BW.SB3.SS13.Sb&PS	2.4			0.067 x l		0.16	2	0.08	4.82
17	Fiting Cantilever Sb & PS	34.BW.SB3.SS13.Sb&PS	2.4			0.067 x l		0.16	2	0.08	4.82
18	Welding Cantilever Sb & PS	28.BW.SB3.SS13.Sb&PS	2.4		0.133 x l			0.32	4	0.08	4.79
19	Welding Cantilever Sb & PS	31.BW.SB3.SS13.Sb&PS	2.4		0.133 x l			0.32	4	0.08	4.79
20	Welding Cantilever Sb & PS	34.BW.SB3.SS13.Sb&PS	2.4		0.133 x l			0.32	4	0.08	4.79
21	Lifting DL	26-3.DL.SB3.SS11		0.396			0.537 x w	0.21	2	0.11	6.37
22	Fiting DL	26-3.DL.SB3.SS11	6			0.067 x l		0.40	2	0.20	12.06
23	Welding DL	26-3.DL.SB3.SS11	12		0.133 x l			1.60	4	0.40	23.94
24	Lifting DT SB & PS	26-35.DT.SB3.SS13.Sb&PS		0.366			0.537 x w	0.20	2	0.10	5.90



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MINIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
25	Fiting DT Sb ke DP	26.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
26	Fiting DT Sb ke DP	27.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
27	Fiting DT Sb ke DP	29.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
28	Fiting DT Sb ke DP	30.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
29	Fiting DT Sb ke DP	32.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
30	Fiting DT Sb ke DP	33.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
31	Fiting DT Sb ke DP	35.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
32	Fiting DT PS ke DP	26.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
33	Fiting DT PS ke DP	27.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
34	Fiting DT PS ke DP	29.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
35	Fiting DT PS ke DP	30.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
36	Fiting DT PS ke DP	32.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
37	Fiting DT PS ke DP	33.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
38	Fiting DT PS ke DP	35.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
39	Welding DT Sb ke DP	26.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
40	Welding DT Sb ke DP	27.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
41	Welding DT Sb ke DP	29.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
42	Welding DT Sb ke DP	30.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
43	Welding DT Sb ke DP	32.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
44	Welding DT Sb ke DP	33.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
45	Welding DT Sb ke DP	35.DT.SB3.SS13.Sb	8.84			0.133 x l		1.18	4	0.29	17.64
46	Welding DT PS ke DP	26.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
47	Welding DT PS ke DP	27.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
48	Welding DT PS ke DP	29.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
49	Welding DT PS ke DP	30.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
50	Welding DT PS ke DP	32.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
51	Welding DT PS ke DP	33.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
52	Welding DT PS ke DP	35.DT.SB3.SS13.PS	8.84			0.133 x l		1.18	4	0.29	17.64
53	Lifting Bracket of DT SB & PS	26-33.BDT.SB3.SS13.Sb&PS		0.112			0.537 x w	0.06	2	0.03	1.81



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT	
			(m)	(ton)	JO/unit	JO/unit	JO/unit					
54	Fiting Bracket of DT Sb ke DT	26.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
55	Fiting Bracket of DT Sb ke DT	27.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
56	Fiting Bracket of DT Sb ke DT	29.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
57	Fiting Bracket of DT Sb ke DT	30.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
58	Fiting Bracket of DT Sb ke DT	32.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
59	Fiting Bracket of DT Sb ke DT	33.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
60	Fiting Bracket of DT Sb ke DT	35.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
61	Fiting Bracket of DT PS ke DT	26.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
62	Fiting Bracket of DT PS ke DT	27.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
63	Fiting Bracket of DT PS ke DT	29.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
64	Fiting Bracket of DT PS ke DT	30.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
65	Fiting Bracket of DT PS ke DT	32.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
66	Fiting Bracket of DT PS ke DT	33.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
67	Fiting Bracket of DT PS ke DT	35.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
68	Welding Bracket of DT Sb ke DT	26.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
69	Welding Bracket of DT Sb ke DT	27.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
70	Welding Bracket of DT Sb ke DT	29.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
71	Welding Bracket of DT Sb ke DT	30.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
72	Welding Bracket of DT Sb ke DT	32.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
73	Welding Bracket of DT Sb ke DT	33.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
74	Welding Bracket of DT Sb ke DT	35.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
75	Welding Bracket of DT PS ke DT	26.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
76	Welding Bracket of DT PS ke DT	27.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
77	Welding Bracket of DT PS ke DT	29.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
78	Welding Bracket of DT PS ke DT	30.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
79	Welding Bracket of DT PS ke DT	32.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
80	Welding Bracket of DT PS ke DT	33.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	
81	Welding Bracket of DT PS ke DT	35.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
82	Lifting Girder & DT Sb&PS	46&49.WF.SB3.SS13.Sb&PS		1.711				0.537 x w	0.92	2	0.46	27.57



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
83	Fiting Girder & DT Sb ke DP	28.WF.SB3.SS11.Sb	9			0.067 x l		0.60	2	0.30	18.09
84	Fiting Girder & DT Sb ke DP	31.WF.SB3.SS11.Sb	9			0.067 x l		0.60	2	0.30	18.09
85	Fiting Girder & DT Sb ke DP	34.WF.SB3.SS11.Sb	9			0.067 x l		0.60	2	0.30	18.09
86	Fiting Girder & DT PS ke DP	28.WF.SB3.SS11.PS	9			0.067 x l		0.60	2	0.30	18.09
87	Fiting Girder & DT PS ke DP	31.WF.SB3.SS11.PS	9			0.067 x l		0.60	2	0.30	18.09
88	Fiting Girder & DT PS ke DP	34.WF.SB3.SS11.PS	9			0.067 x l		0.60	2	0.30	18.09
89	Welding Girder & DT Sb ke DP	28.WF.SB3.SS11.Sb	9		0.133 x l			1.20	4	0.30	17.96
90	Welding Girder & DT Sb ke DP	31.WF.SB3.SS11.Sb	9		0.133 x l			1.20	4	0.30	17.96
91	Welding Girder & DT Sb ke DP	34.WF.SB3.SS11.Sb	9		0.133 x l			1.20	4	0.30	17.96
92	Welding Girder & DT PS ke DP	28.WF.SB3.SS11.PS	9		0.133 x l			1.20	4	0.30	17.96
93	Welding Girder & DT PS ke DP	31.WF.SB3.SS11.PS	9		0.133 x l			1.20	4	0.30	17.96
94	Welding Girder & DT PS ke DP	34.WF.SB3.SS11.PS	9		0.133 x l			1.20	4	0.30	17.96
JUMLAH			419.12	6.00						15.59	935.39

<b>PERAKITAN BLOCK 11</b>											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
	Lifting Sub Block 2			2.38			0.537 x w	1.28	1	1.28	76.53
	Lifting Sub Block 3 (Deck)			6.00			0.537 x w	3.22	1	3.22	193.21
	Fiting SB 3 ke SB1 dan SB2		19			0.067 x l		1.27	1	1.27	76.38
	Welding Deck Plate ke SP		24		0.133 x l			3.19	2	1.60	95.76
	Welding Bracket of SB1 ke SB3		3.5		0.133 x l			0.47	2	0.23	13.97
	Welding Bracket of SB2 ke SB3		3.5		0.133 x l			0.47	2	0.23	13.97
	JUMLAH		50.00	8.37						7.83	469.81



SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			
1	Lifting SP G , I, J, K	0.94					0.94	1	
2			Fiting SP G ke I	0.40			0.40	1	
3			Fiting SP I ke J	0.40	Welding SP G ke I	0.80	0.80	3	
4			Fiting SP J ke K	0.40	Welding SP I ke J	0.80	0.80	3	
5					Welding SP J ke K	0.80	0.80	2	
6	Lifting WF 28,31,34	0.21					0.21	1	
7			Fiting WF ke SP	0.88			0.88	1	
8					Welding WF ke SP	1.75	1.75	2	
9	Lifting MF 26,27,29,30,32,33,35	0.07					0.07	1	
10			Fiting MF ke SP	1.45			1.45	1	
11					Welding MF ke SP	1.44	1.44	2	
12	Lifting Bracket of MF 26,27,29,30,32,33,35	0.02					0.02	1	
13			Fiting Brack. of MF ke SP	0.20			0.20	1	
14					Welding Brack. of MF ke SP	0.20	0.20	2	
15	Lifting ST 28-35	0.04					0.04	1	
16			Fiting ST 28-35	0.29			0.29	1	
17					Welding ST 28-35	0.29	0.29	2	
	<b>TOTAL</b>	<b>1.275</b>		<b>4.034</b>			<b>6.077</b>	<b>10.582</b>	

SUB BLOCK 2, PANEL 2									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			
1	Lifting SP G , I, J, K	0.94					0.94	1	
2			Fiting SP G ke I	0.40			0.40	1	
3			Fiting SP I ke J	0.40	Welding SP G ke I	0.80	0.80	3	



SUB BLOCK 2, PANEL 2								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
4			Fiting SP J ke K	0.40	Welding SP I ke J	0.80	0.80	3
5					Welding SP J ke K	0.80	0.80	2
6	Lifting WF 28,31,34	0.21					0.21	1
7			Fiting WF ke SP	0.88			0.88	1
8					Welding WF ke SP	1.75	1.75	2
9	Lifting MF 26,27,29,30,32,33,35	0.07					0.07	1
10			Fiting MF ke SP	1.45			1.45	1
11					Welding MF ke SP	1.44	1.44	2
12	Lifting Bracket of MF 26,27,29,30,32,33,35	0.02					0.02	1
13			Fiting Brack. of MF ke SP	0.20			0.20	1
14					Welding Brack. of MF ke SP	0.20	0.20	2
15	Lifting ST 28-35	0.04					0.04	1
16			Fiting ST 28-35	0.29			0.29	1
17					Welding ST 28-35	0.29	0.29	2
	<b>TOTAL</b>	<b>1.275</b>		<b>4.034</b>		<b>6.077</b>	<b>10.582</b>	<b>5</b>

SUB BLOCK 3, PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Deck Plate A-G	0.91					0.91	2
2			Fiting Deck Plate A ke B	0.20			0.20	2
3			Fiting Deck Plate B ke C	0.20	Welding Deck Plate A ke B	0.20	0.20	6
4			Fiting Deck Plate C ke D	0.20	Welding Deck Plate B ke C	0.20	0.20	6
5			Fiting Deck Plate D ke E	0.20	Welding Deck Plate C ke D	0.20	0.20	6





SUB BLOCK 3, PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
6			Fiting Deck Plate E ke F	0.20	Welding Deck Plate D ke E	0.20	0.20	6
7			Fiting Deck Plate F ke G	0.20	Welding Deck Plate E ke F	0.20	0.20	6
8					Welding Deck Plate F ke G	0.20	0.20	2
9	Lifting Cantilever 28,31,34	0.11					0.11	2
10			Fiting Cantilever Sb & PS	0.20			0.20	2
11					Welding Cantilever Sb & PS	0.40	0.40	4
12	Lifting DL	0.11					0.11	2
13			Fiting DL	0.20			0.20	2
14					Welding DL	0.40	0.40	4
15	Lifting DT SB & PS	0.10					0.10	2
16			Fiting DT Sb ke Deck Plate	1.04			1.04	2
17			Fiting DT PS ke Deck Plate	1.04	Welding DT Sb ke Deck Plate	2.06	2.06	6
18					Welding DT PS ke Deck Plate	2.06	2.06	4
19	Lifting Bracket of DT SB & PS	0.03					0.03	2
20			Fiting Bracket of DT Sb ke DT	0.18			0.18	2
21			Fiting Bracket of DT PS ke DT	0.18	Welding Bracket of DT Sb ke DT	0.17	0.17	6
22					Welding Bracket of DT PS ke DT	0.17	0.17	4
23	Lifting Girder & DT Sb&PS	0.46					0.46	2
24			Fiting Girder & DT Sb ke Deck Plate	0.90			0.90	2
25			Fiting Girder & DT PS ke Deck Plate	0.90	Welding Girder & DT Sb ke Deck Plate	0.90	0.90	6
26					Welding Girder & DT PS ke Deck Plate	0.90	0.90	4



SUB BLOCK 3, PANEL 3									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			
	<b>TOTAL</b>	1.712		5.843		8.257	12.69	10	

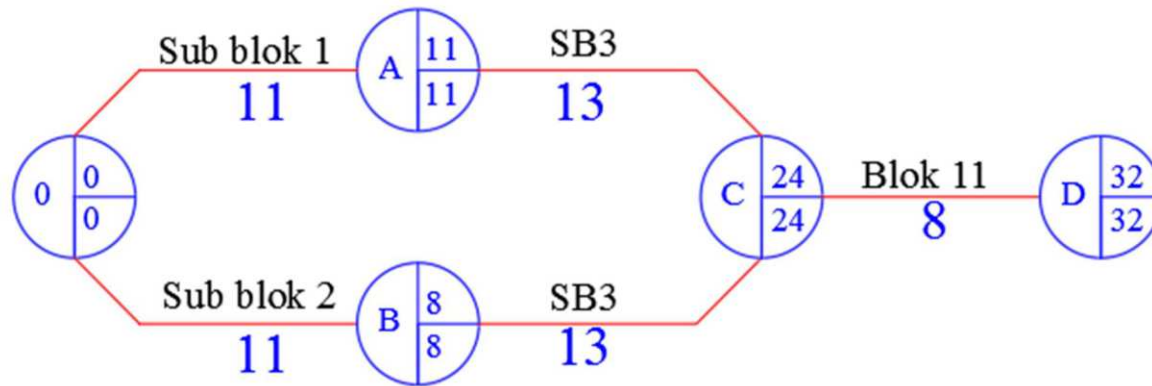
PERAKITAN BLOK 11									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			
1	Lifting Sub Block 2	1.28					1.28	2	
2	Lifting Sub Block 3 (Deck)	3.22					3.22	2	
3			Fiting SB 3 ke SB1 dan SB2	1.27			1.27	2	
4					Welding Deck Plate ke SP	1.60	1.60	2	
5					Welding Bracket of SB1 ,SB2 ke SB3	0.23	0.23	2	
	<b>TOTAL</b>	4.50		1.27		1.83	7.60	2	

B. Hubungan Ketergantungan

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis	EF - LF
A	Perakitan sub blok 1	-	11	5	0	11	0	11	Ya	0
B	Perakitan sub blok 2	-	11	5	0	11	0	11	Ya	0
C	Perakitan sub blok 3	A,B	13	10	11	24	11	24	Ya	0
D	Perakitan blok 11	C	8	5	24	32	24	32	Ya	0



C. Jaringan Kerja





# BLOK 12



## A. Perhitungan dan perakitan blok 12

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG G (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP G, I, J, K	36-43.SP.SB1.SS12.Sb		1.489			0.537 x w	0.80	1	0.80	47.99
2	Fiting SP G ke I	36-43.SP.SB1.SS12.Sb	5.1			0.067 x l		0.34	1	0.34	20.50
3	Fiting SP I ke J	36-43.SP.SB1.SS12.Sb	5.1			0.067 x l		0.34	1	0.34	20.50
4	Fiting SP J ke K	36-43.SP.SB1.SS12.Sb	5.1			0.067 x l		0.34	1	0.34	20.50
5	Welding SP G ke I	36-43.SP.SB1.SS12.Sb	10.2		0.133 x l			1.36	2	0.68	40.70
6	Welding SP I ke J	36-43.SP.SB1.SS12.Sb	10.2		0.133 x l			1.36	2	0.68	40.70
7	Welding SP J ke K	36-43.SP.SB1.SS12.Sb	10.2		0.133 x l			1.36	2	0.68	40.70
8	Lifting WF 37,40,43	WF.SB1.SS12.Sb		0.382			0.537 x w	0.21	1	0.21	12.31
9	Fiting WF ke SP	37.WF.SB1.SS12.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
10	Fiting WF ke SP	40.WF.SB1.SS12.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
11	Fiting WF ke SP	43.WF.SB1.SS12.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
12	Welding WF ke SP	37.WF.SB1.SS12.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
13	Welding WF ke SP	40.WF.SB1.SS12.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
14	Welding WF ke SP	43.WF.SB1.SS12.Sb	8.78		0.133 x l			1.17	2	0.58	35.03
15	Lifting MF 36,38,39,41,42	MF.SB1.SS12.Sb		0.0739			0.537 x w	0.04	1	0.04	2.38
16	Fiting MF ke SP	36.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
17	Fiting MF ke SP	38.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
18	Fiting MF ke SP	39.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
19	Fiting MF ke SP	41.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
20	Fiting MF ke SP	42.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04
21	Welding MF ke SP	36.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
22	Welding MF ke SP	38.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
23	Welding MF ke SP	39.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
24	Welding MF ke SP	41.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
25	Welding MF ke SP	42.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97
26	Lifting Brack. of MF 36,38,39,41,42	BM.SB1.SS12.Sb		0.0268			0.537 x w	0.01	1	0.01	0.86
27	Fiting Brack. of MF ke MF	36.BM.SB1.SS12.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
28	Fiting Brack. of MF ke MF	38.BM.SB1.SS12.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
29	Fiting Brack. of MF ke MF	39.BM.SB1.SS12.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
30	Fiting Brack. of MF ke MF	41.BM.SB1.SS12.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
31	Fiting Brack. of MF ke MF	42.BM.SB1.SS12.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
32	Welding Brack. of MF ke MF	36.BM.SB1.SS12.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
33	Welding Brack. of MF ke MF	38.BM.SB1.SS12.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
34	Welding Brack. of MF ke MF	39.BM.SB1.SS12.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
35	Welding Brack. of MF ke MF	41.BM.SB1.SS12.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
36	Welding Brack. of MF ke MF	42.BM.SB1.SS12.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
37	Lifting ST 36-43	36-43.ST.SB1.SS13.Sb		0.0808			0.537 x w	0.04	1	0.04	2.60
38	Fiting ST 36-43	36-43.ST.SB1.SS13.Sb	4.39			0.067 x l		0.29	1	0.29	17.65
39	Welding ST 36-43	36-43.ST.SB1.SS13.Sb	4.39		0.133 x l			0.58	2	0.29	17.52
JUMLAH			124.17	2.05						9.38	563.01
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL 1 SIDE											
1	Lifting SP G, I, J, K	36-43.SP.SB2.SS12.PS		1.489			0.537 x w	0.80	1	0.80	47.99
2	Fiting SP G ke I	36-43.SP.SB2.SS12.PS (I)	5.1			0.067 x l		0.34	1	0.34	20.50
3	Fiting SP I ke J	36-43.SP.SB2.SS12.PS (J)	5.1			0.067 x l		0.34	1	0.34	20.50
4	Fiting SP J ke K	36-43.SP.SB2.SS12.PS (K)	5.1			0.067 x l		0.34	1	0.34	20.50
5	Welding SP G ke I	36-43.SP.SB2.SS12.PS (G)	10.2		0.133 x l			1.36	2	0.68	40.70
6	Welding SP I ke J	36-43.SP.SB2.SS12.PS (I)	10.2		0.133 x l			1.36	2	0.68	40.70
7	Welding SP J ke K	36-43.SP.SB2.SS12.PS (J)	10.2		0.133 x l			1.36	2	0.68	40.70



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
8	Lifting WF 37,40,43	WF.SB2.SS12.PS		0.382			0.537 x w	0.21	1	0.21	12.31
9	Fiting WF ke SP	37.WF.SB2.SS12.PS	4.39			0.067 x l		0.29	1	0.29	17.65
10	Fiting WF ke SP	40.WF.SB2.SS12.PS	4.39			0.067 x l		0.29	1	0.29	17.65
11	Fiting WF ke SP	43.WF.SB2.SS12.PS	4.39			0.067 x l		0.29	1	0.29	17.65
12	Welding WF ke SP	37.WF.SB2.SS12.PS	8.78		0.133 x l			1.17	2	0.58	35.03
13	Welding WF ke SP	40.WF.SB2.SS12.PS	8.78		0.133 x l			1.17	2	0.58	35.03
14	Welding WF ke SP	43.WF.SB2.SS12.PS	8.78		0.133 x l			1.17	2	0.58	35.03
15	Lifting MF 36,38,39,41,42	MF.SB2.SS12.PS		0.0739			0.537 x w	0.04	1	0.04	2.38
16	Fiting MF ke SP	36.MF.SB2.SS12.PS	2.50			0.067 x l		0.17	1	0.17	10.04
17	Fiting MF ke SP	38.MF.SB2.SS12.PS	2.50			0.067 x l		0.17	1	0.17	10.04
18	Fiting MF ke SP	39.MF.SB2.SS12.PS	2.50			0.067 x l		0.17	1	0.17	10.04
19	Fiting MF ke SP	41.MF.SB2.SS12.PS	2.50			0.067 x l		0.17	1	0.17	10.04
20	Fiting MF ke SP	42.MF.SB2.SS12.PS	2.50			0.067 x l		0.17	1	0.17	10.04
21	Welding MF ke SP	36.MF.SB2.SS12.PS	2.50		0.133 x l			0.33	2	0.17	9.97
22	Welding MF ke SP	38.MF.SB2.SS12.PS	2.50		0.133 x l			0.33	2	0.17	9.97
23	Welding MF ke SP	39.MF.SB2.SS12.PS	2.50		0.133 x l			0.33	2	0.17	9.97
24	Welding MF ke SP	41.MF.SB2.SS12.PS	2.50		0.133 x l			0.33	2	0.17	9.97
25	Welding MF ke SP	42.MF.SB2.SS12.PS	2.50		0.133 x l			0.33	2	0.17	9.97
26	Lifting Brack. of MF 36,38,39,41,42	BM.SB2.SS12.PS		0.0268			0.537 x w	0.01	1	0.01	0.86
27	Fiting Brack. of MF ke MF	36.BM.SB2.SS12.PS	0.5			0.067 x l		0.03	1	0.03	2.01
28	Fiting Brack. of MF ke MF	38.BM.SB2.SS12.PS	0.5			0.067 x l		0.03	1	0.03	2.01
29	Fiting Brack. of MF ke MF	39.BM.SB2.SS12.PS	0.5			0.067 x l		0.03	1	0.03	2.01
30	Fiting Brack. of MF ke MF	41.BM.SB2.SS12.PS	0.5			0.067 x l		0.03	1	0.03	2.01
31	Fiting Brack. of MF ke MF	42.BM.SB2.SS12.PS	0.5			0.067 x l		0.03	1	0.03	2.01
32	Welding Brack. of MF ke MF	36.BM.SB2.SS12.PS	0.5		0.133 x l			0.07	2	0.03	2.00
33	Welding Brack. of MF ke MF	38.BM.SB2.SS12.PS	0.5		0.133 x l			0.07	2	0.03	2.00
34	Welding Brack. of MF ke MF	39.BM.SB2.SS12.PS	0.5		0.133 x l			0.07	2	0.03	2.00



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING	JAM			MINIT	
			(m)	(ton)	JO/unit	JO/unit	JO/unit					
35	Welding Brack. of MF ke MF	41.BM.SB2.SS12.PS	0.5		0.133 x l			0.07	2	0.03	2.00	
36	Welding Brack. of MF ke MF	42.BM.SB2.SS12.PS	0.5		0.133 x l			0.07	2	0.03	2.00	
37	Lifting ST 36-43	36-43.ST.SB2.SS13.PS		0.0808			0.537 x w	0.04	1	0.04	2.60	
38	Fiting ST 36-43	36-43.ST.SB2.SS13.PS	4.39			0.067 x l		0.29	1	0.29	17.65	
39	Welding ST 36-43	36-43.ST.SB2.SS13.PS	4.39		0.133 x l			0.58	2	0.29	17.52	
JUMLAH			124.17	2.05						9.38	563.01	
<b>SUB BLOCK 3</b>												
PANEL 3 DECK												
1	Lifting DP A-G	36-43.DP.SB3.SS12.PS		2.89			0.537 x w	1.55	2	0.77	46.49	
2	Fiting DP A ke B	36-43.DP.SB3.SS12.Sb	5.1			0.067 x l		0.34	2	0.17	10.25	
3	Fiting DP B ke C	36-43.DP.SB3.SS12.PS	5.1			0.067 x l		0.34	2	0.17	10.25	
4	Fiting DP C ke D	36-43.DP.SB3.SS12.PS	5.1			0.067 x l		0.34	2	0.17	10.25	
5	Fiting DP D ke E	36-43.DP.SB3.SS12.Sb	5.1			0.067 x l		0.34	2	0.17	10.25	
6	Fiting DP E ke F	36-43.DP.SB3.SS12.Sb	5.1			0.067 x l		0.34	2	0.17	10.25	
7	Fiting DP F ke G	36-43.DP.SB3.SS12.Sb	5.1			0.067 x l		0.34	2	0.17	10.25	
8	Welding DP A ke B	36-43.DP.SB3.SS12.Sb	5.1		0.133 x l			0.68	4	0.17	10.17	
9	Welding DP B ke C	36-43.DP.SB3.SS12.PS	5.1		0.133 x l			0.68	4	0.17	10.17	
10	Welding DP C ke D	36-43.DP.SB3.SS12.PS	5.1		0.133 x l			0.68	4	0.17	10.17	
11	Welding DP D ke E	36-43.DP.SB3.SS12.Sb	5.1		0.133 x l			0.68	4	0.17	10.17	
12	Welding DP E ke F	36-43.DP.SB3.SS12.Sb	5.1		0.133 x l			0.68	4	0.17	10.17	
13	Welding DP F ke G	36-43.DP.SB3.SS12.Sb	5.1		0.133 x l			0.68	4	0.17	10.17	
14	Lifting Cantilever 37,40,43	BW.SB3.SS12.Sb		0.016			0.537 x w	0.01	2	0.00	0.26	
15	Fiting Cantilever SB	37.BW.SB3.SS12.Sb	1.2			0.067 x l		0.08	4	0.02	1.21	
16	Fiting Cantilever SB	40.BW.SB3.SS12.Sb	1.2			0.067 x l		0.08	4	0.02	1.21	
17	Fiting Cantilever SB	43.BW.SB3.SS12.Sb	1.2			0.067 x l		0.08	4	0.02	1.21	
18	Fiting Cantilever PS	37.BW.SB3.SS12.PS	1.2			0.067 x l		0.08	4	0.02	1.21	
19	Fiting Cantilever PS	40.BW.SB3.SS12.PS	1.2			0.067 x l		0.08	4	0.02	1.21	
20	Fiting Cantilever PS	43.BW.SB3.SS12.PS	1.2			0.067 x l		0.08	4	0.02	1.21	





NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING	JAM			MENIT	
			(m)	(ton)	JO/unit	JO/unit	JO/unit					
21	Welding Cantilever SB	37.BW.SB3.SS12.Sb	2.4		0.133 x l			0.32	2	0.16	9.58	
22	Welding Cantilever SB	40.BW.SB3.SS12.Sb	2.4		0.133 x l			0.32	2	0.16	9.58	
23	Welding Cantilever SB	43.BW.SB3.SS12.Sb	2.4		0.133 x l			0.32	2	0.16	9.58	
24	Welding Cantilever PS	37.BW.SB3.SS12.PS	2.4		0.133 x l			0.32	2	0.16	9.58	
25	Welding Cantilever PS	40.BW.SB3.SS12.PS	2.4		0.133 x l			0.32	2	0.16	9.58	
26	Welding Cantilever PS	43.BW.SB3.SS12.PS	2.4		0.133 x l			0.32	2	0.16	9.58	
27	Lifting DL	36-43.DL.SB3.SS12		0.396			0.537 x w	0.21	2	0.11	6.37	
28	Fiting DL	36-43.DL.SB3.SS12	6			0.067 x l		0.40	2	0.20	12.06	
29	Welding DL	36-43.DL.SB3.SS12	12		0.133 x l			1.60	4	0.40	23.94	
30	Lifting DT SB & PS	36-51.DT.SB3.SS13.Sb&PS		0.262			0.537 x w	0.14	2	0.07	4.21	
31	Fiting DT Sb ke DP	36.DT.SB3.SS13.Sb	4.4			0.067 x l		0.30	2	0.15	8.89	
32	Fiting DT Sb ke DP	38.DT.SB3.SS13.Sb	4.4			0.067 x l		0.30	2	0.15	8.89	
33	Fiting DT Sb ke DP	39.DT.SB3.SS13.Sb	4.4			0.067 x l		0.30	2	0.15	8.89	
34	Fiting DT Sb ke DP	41.DT.SB3.SS13.Sb	4.4			0.067 x l		0.30	2	0.15	8.89	
35	Fiting DT Sb ke DP	42.DT.SB3.SS13.Sb	4.4			0.067 x l		0.30	2	0.15	8.89	
36	Fiting DT PS ke DP	36.DT.SB3.SS13.PS	4.4			0.067 x l		0.30	2	0.15	8.89	
37	Fiting DT PS ke DP	38.DT.SB3.SS13.PS	4.4			0.067 x l		0.30	2	0.15	8.89	
38	Fiting DT PS ke DP	39.DT.SB3.SS13.PS	4.4			0.067 x l		0.30	2	0.15	8.89	
39	Fiting DT PS ke DP	41.DT.SB3.SS13.PS	4.4			0.067 x l		0.30	2	0.15	8.89	
40	Fiting DT PS ke DP	42.DT.SB3.SS13.PS	4.4			0.067 x l		0.30	2	0.15	8.89	
41	Welding DT Sb ke DP	36.DT.SB3.SS13.Sb	8.8		0.133 x l			1.18	4	0.29	17.64	
42	Welding DT Sb ke DP	38.DT.SB3.SS13.Sb	8.8		0.133 x l			1.18	4	0.29	17.64	
43	Welding DT Sb ke DP	39.DT.SB3.SS13.Sb	8.8		0.133 x l			1.18	4	0.29	17.64	
44	Welding DT Sb ke DP	41.DT.SB3.SS13.Sb	8.8		0.133 x l			1.18	4	0.29	17.64	
45	Welding DT Sb ke DP	42.DT.SB3.SS13.Sb	8.8		0.133 x l			1.18	4	0.29	17.64	
46	Welding DT PS ke DP	36.DT.SB3.SS13.PS	8.8		0.133 x l			1.18	4	0.29	17.64	
47	Welding DT PS ke DP	38.DT.SB3.SS13.PS	8.8		0.133 x l			1.18	4	0.29	17.64	
48	Welding DT PS ke DP	39.DT.SB3.SS13.PS	8.8		0.133 x l			1.18	4	0.29	17.64	



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
49	Welding DT PS ke DP	41.DT.SB3.SS13.PS	8.8		0.133 x l			1.18	4	0.29	17.64
50	Welding DT PS ke DP	42.DT.SB3.SS13.PS	4.4		0.133 x l			0.59	4	0.15	8.82
51	Lifting Brack. of DT SB & PS	36-51.BDT.SB3.SS13.Sb&PS		0.080			0.537 x w	0.04	2	0.02	1.29
52	Fiting Brack. of DT Sb ke DT	36.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51
53	Fiting Brack. of DT Sb ke DT	38.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51
54	Fiting Brack. of DT Sb ke DT	39.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51
55	Fiting Brack. of DT Sb ke DT	41.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51
56	Fiting Brack. of DT Sb ke DT	42.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51
57	Fiting Brack. of DT PS ke DT	36.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51
58	Fiting Brack. of DT PS ke DT	38.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51
59	Fiting Brack. of DT PS ke DT	39.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51
60	Fiting Brack. of DT PS ke DT	41.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51
61	Fiting Brack. of DT PS ke DT	42.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51
62	Welding Brack. of DT Sb ke DT	36.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50
63	Welding Brack. of DT Sb ke DT	38.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50
64	Welding Brack. of DT Sb ke DT	39.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50
65	Welding Brack. of DT Sb ke DT	41.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50
66	Welding Brack. of DT Sb ke DT	42.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50
67	Welding Brack. of DT PS ke DT	36.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
68	Welding Brack. of DT PS ke DT	38.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
69	Welding Brack. of DT PS ke DT	39.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
70	Welding Brack. of DT PS ke DT	41.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
71	Welding Brack. of DT PS ke DT	42.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
72	Lifting Girder & DT Sb & PS	WF.SB3.SS13.Sb&PS		1.711			0.537 x w	0.92	2	0.46	27.57
73	Fiting Girder & DT Sb	37.WF.SB3.SS13.Sb	0.25			0.067 x l		0.02	2	0.01	0.50
74	Fiting Girder & DT Sb	40.WF.SB3.SS13.Sb	0.25					0.02	2	0.01	0.50
75	Fiting Girder & DT Sb	43.WF.SB3.SS13.Sb	0.25					0.02	2	0.01	0.50
76	Fiting Girder & DT PS	37.WF.SB3.SS13.PS	0.25					0.02	2	0.01	0.50



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJAN G	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
77	Fiting Girder & DT PS	40.WF.SB3.SS13.PS	0.25					0.02	2	0.01	0.50
78	Fiting Girder & DT PS	43.WF.SB3.SS13.PS	0.25					0.02	2	0.01	0.50
79	Welding Girder & DT Sb	37.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
80	Welding Girder & DT Sb	40.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
81	Welding Girder & DT Sb	43.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
82	Welding Girder & DT PS	37.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
83	Welding Girder & DT PS	40.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
84	Welding Girder & DT PS	43.WF.SB3.SS13.PS	0.5		0.133 x l			0.07	4	0.02	1.00
JUMLAH			248.54	5.35						10.08	604.98

PERAKITAN <i>BLOCK 12</i>											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKI RAAN TENAG A KERJA	DURASI	
			PANJAN G	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	Lifting Sub Block 2			2.05				1.10	1	1.10	66.14
	Lifting Sub Block 3 (Deck)			5.35				2.87	1	2.87	172.40
	Fiting SB 3 ke SB1 dan SB2		15.2			0.067 x l		1.02	2	0.51	30.55
	Welding DP ke SP		20.4					2.71	2	1.36	81.40
	Welding Brack. of SB1 ke SB3		2.5		0.133 x l			0.33	2	0.17	9.98
	Welding Brack. of SB2 ke SB3		2.5					0.33	2	0.17	9.98
JUMLAH			40.60	7.40						6.17	370.43



SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G, I, J, K	0.80					0.80	2
2			Fiting SP G ke I	0.34			0.34	2
3			Fiting SP I ke J	0.34	Welding SP G ke I	0.68	0.68	4
4			Fiting SP J ke K	0.34	Welding SP I ke J	0.68	0.68	4
5					Welding SP J ke K	0.68	0.68	2
6	Lifting WF 37,40,43	0.21					0.21	2
7			Fiting WF ke SP	0.88			0.88	2
8					Welding WF ke SP	1.75	1.75	2
9	Lifting Brack. of MF 36,38,39,41,42	0.04					0.04	2
10			Fiting MF ke SP	0.84			0.84	2
11					Welding MF ke SP	0.83	0.83	2
12	Lifting Brack. of MF 36,38,39,41,42	0.01					0.01	2
13			Fiting Brack. of MF ke MF	0.17			0.17	2
14					Welding Brack. of MF ke MF	0.17	0.17	2
15	Lifting ST 36-43	0.04					0.04	2
16			Fiting ST 36-43	0.29			0.29	2
17					Welding ST 36-43	0.29	0.29	2
<b>TOTAL</b>		<b>1.10</b>		<b>3.21</b>		<b>5.08</b>	<b>8.70</b>	<b>6</b>



SUB BLOCK 2 PANEL 2								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP G, I, J, K	0.80					0.80	2
2			Fiting SP G ke I	0.34			0.34	2
3			Fiting SP I ke J	0.34	Welding SP G ke I	0.68	0.68	4
4			Fiting SP J ke K	0.34	Welding SP I ke J	0.68	0.68	4
5					Welding SP J ke K	0.68	0.68	2
6	Lifting WF 37,40,43	0.21					0.21	2
7			Fiting WF ke SP	0.88			0.88	2
8					Welding WF ke SP	1.75	1.75	2
9	Lifting Brack. of MF 36,38,39,41,42	0.04					0.04	2
10			Fiting MF ke SP	0.84			0.84	2
11					Welding MF ke SP	0.83	0.83	2
12	Lifting Brack. of MF 36,38,39,41,42	0.01					0.01	2
13			Fiting Brack. of MF ke MF	0.17			0.17	2
14					Welding Brack. of MF ke MF	0.17	0.17	2
15	Lifting ST 36-43	0.04					0.04	2
16			Fiting ST 36-43	0.29			0.29	2
17					Welding ST 36-43	0.29	0.29	2
<b>TOTAL</b>		<b>1.10</b>		<b>3.21</b>		<b>5.08</b>	<b>8.70</b>	<b>6</b>



SUB BLOCK 3 PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	0.77					0.77	2
2			Fiting DP A ke B	0.17			0.17	2
3			Fiting DP B ke C	0.17	Welding DP A ke B	0.17	0.17	4
4			Fiting DP C ke D	0.17	Welding DP B ke C	0.17	0.17	4
5			Fiting DP D ke E	0.17	Welding DP C ke D	0.17	0.17	4
6			Fiting DP E ke F	0.17	Welding DP D ke E	0.17	0.17	4
7			Fiting DP F ke G	0.17	Welding DP E ke F	0.17	0.17	4
8					Welding DP F ke G	0.17	0.17	2
9	Lifting Cantilever 37,40,43	0.00					0.00	1
10			Fiting Cantilever SB	0.06			0.06	1
11			Fiting Cantilever PS	0.06	Welding Cantilever SB	0.48	0.48	2
12					Welding Cantilever PS	0.48	0.48	1
13	Lifting DL	0.11					0.11	2
14			Fiting DL	0.20			0.20	2
15					Welding DL	0.40	0.40	2
16	Lifting DT SB & PS	0.07					0.07	2
17			Fiting DT Sb ke DP	0.74			0.74	2
18			Fiting DT PS ke DP	0.74	Welding DT Sb ke DP	1.47	1.47	4
19					Welding DT PS ke DP	1.47	1.47	2
20	Lifting Brack. of DT SB & PS	0.02					0.02	1
21			Fiting Brack. of DT Sb ke DT	0.13			0.13	1
22			Fiting Brack. of DT PS ke DT	0.13	Welding Brack. of DT Sb ke DT	0.12	0.12	2
23					Welding Brack. of DT PS ke DT	0.12	0.12	1
24	Lifting Girder & DT Sb & PS	0.46					0.46	1



SUB BLOCK 3 PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
25			Fiting Girder & DT Sb	0.03			0.03	1
26			Fiting Girder & DT PS	0.03	Welding Girder & DT Sb	0.05	0.05	2
<b>TOTAL</b>		1.44		3.13		5.61	8.37	6

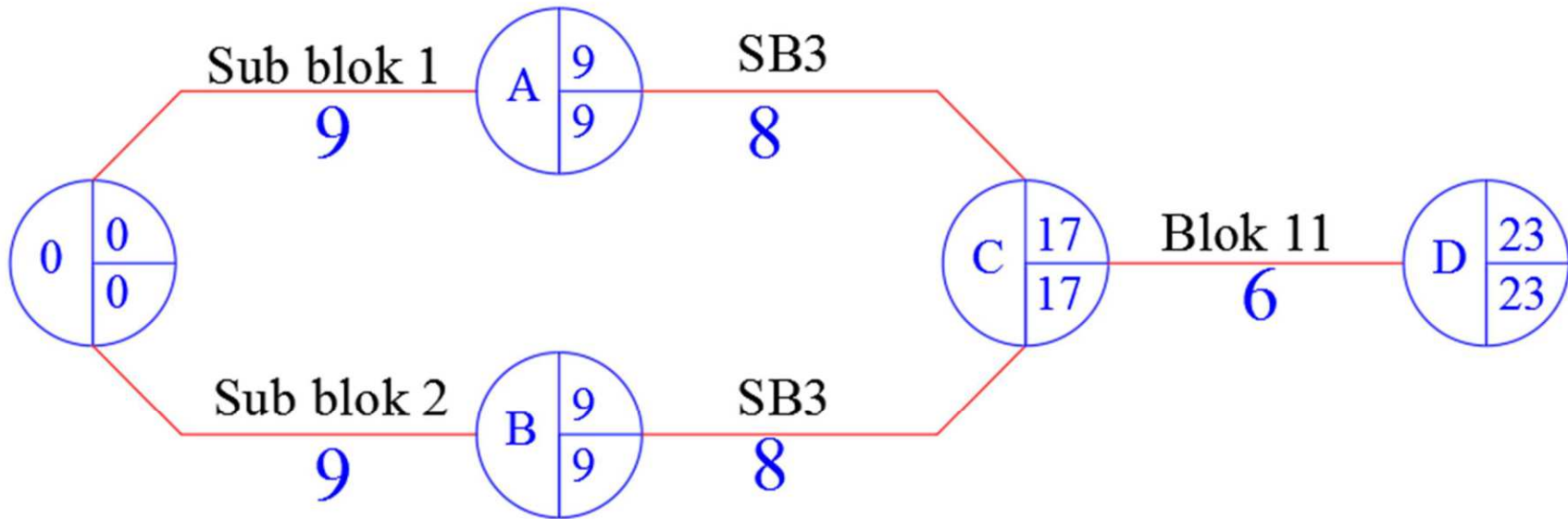
PERAKITAN BLOK 12								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 2	1.10					1.10	4
2	Lifting Sub Block 3 (Deck)	2.87					2.87	4
3			Fiting SB 3 ke SB1 dan SB2	0.51			0.51	3
4					Welding DP ke SP	1.36	1.36	1
5					Welding Brack. of SB1, SB2 ke SB3	0.17	0.17	2
<b>TOTAL</b>		3.98		0.51		1.52	6.01	6

B. Hubungan ketergantungan

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan sub blok 1	-	9	5	0	9	0	9	Ya
B	Perakitan sub blok 2	-	9	5	0	9	0	9	Ya
C	Perakitan sub blok 3	A,B	8	10	9	17	9	17	Ya
D	Perakitan blok 12	C	6	5	17	23	17	23	Ya



C. Jaringan kerja blok 12







# BLOK 13



## A. Perhitungan dan perakitan blok 13

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit	JAM			MINIT	
<b>SUB BLOCK 1 (STARBOARD)</b>												
PANEL 1 SIDE												
1	Lifting SP G, I, J, K	44-52.SP.SB1.SS13.Sb (G)		1.47			0.537 x w	0.79	1	0.79	47.33	
2	Fiting SP G ke I	44-52.SP.SB1.SS13.Sb (I)	5.1			0.067 x l		0.34	1	0.34	20.50	
3	Fiting SP I ke J	44-52.SP.SB1.SS13.Sb (J)	4.95			0.067 x l		0.33	1	0.33	19.90	
4	Fiting SP J ke K	44-52.SP.SB1.SS13.Sb (K)	4.95			0.067 x l		0.33	1	0.33	19.90	
5	Welding SP G ke I	44-52.SP.SB1.SS13.Sb (G)	10.2		0.133 x l			1.36	2	0.68	40.70	
6	Welding SP I ke J	44-52.SP.SB1.SS13.Sb (I)	9.9		0.133 x l			1.32	2	0.66	39.50	
7	Welding SP J ke K	44-52.SP.SB1.SS13.Sb (J)	9.9		0.133 x l			1.32	2	0.66	39.50	
8	Lifting WF 46,49,52	WF.SB1.SS13.Sb		0.451			0.537 x w	0.24	1	0.24	14.53	
9	Fiting WF ke SP	46.WF.SB1.SS13.Sb	4.09			0.067 x l		0.27	1	0.27	16.44	
10	Fiting WF ke SP	49.WF.SB1.SS13.Sb	4.09			0.067 x l		0.27	1	0.27	16.44	
11	Fiting WF ke SP	52.WF.SB1.SS13.Sb	4.09			0.067 x l		0.27	1	0.27	16.44	
12	Welding WF ke SP	46.WF.SB1.SS13.Sb	8.18		0.133 x l			1.09	2	0.54	32.63	
13	Welding WF ke SP	49.WF.SB1.SS13.Sb	8.18		0.133 x l			1.09	2	0.54	32.63	
14	Welding WF ke SP	52.WF.SB1.SS13.Sb	8.18		0.133 x l			1.09	2	0.54	32.63	
15	Lifting MF 44,45,47,48,50	MF.SB1.SS12.Sb		0.113			0.537 x w	0.06	1	0.06	3.65	
16	Fiting MF ke SP	44.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
17	Fiting MF ke SP	45.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
18	Fiting MF ke SP	47.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
19	Fiting MF ke SP	48.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
20	Fiting MF ke SP	50.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
21	Fiting MF ke SP	51.MF.SB1.SS12.Sb	2.50			0.067 x l		0.17	1	0.17	10.04	
22	Welding MF ke SP	44.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	
23	Welding MF ke SP	45.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	
24	Welding MF ke SP	47.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	
25	Welding MF ke SP	48.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	
26	Welding MF ke SP	50.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	
27	Welding MF ke SP	51.MF.SB1.SS12.Sb	2.50		0.133 x l			0.33	2	0.17	9.97	



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENTIT
28	Lifting Brack. of MF 44,45,47,48,50	BM.SB1.SS12.Sb		0.039			0.537 x w	0.02	1	0.02	1.25
29	Fiting Brack. of MF of MF	44.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
30	Fiting Brack. of MF of MF	45.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
31	Fiting Brack. of MF of MF	47.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
32	Fiting Brack. of MF of MF	48.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
33	Fiting Brack. of MF of MF	50.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
34	Fiting Brack. of MF of MF	51.BM.SB1.SS12.Sb	0.5			0.067 x l	0.03	1	0.03	2.01	
35	Welding Brack. of MF of MF	44.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
36	Welding Brack. of MF of MF	45.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
37	Welding Brack. of MF of MF	47.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
38	Welding Brack. of MF of MF	48.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
39	Welding Brack. of MF of MF	50.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
40	Welding Brack. of MF of MF	51.BM.SB1.SS12.Sb	0.5		0.133 x l		0.07	2	0.03	2.00	
41	Lifting Stringer 44-52	44-52.ST.SB1.SS13.Sb		0.015			0.537 x w	0.0078	1	0.01	0.47
42	Fiting Stringer 44-52 ke SP	44-52.ST.SB1.SS13.Sb	3.57			0.067 x l		0.24	1	0.24	14.36
43	Welding Stringer 44-52 ke SP	44-52.ST.SB1.SS13.Sb	7.15		0.133 x l			0.95	2	0.48	28.51
JUMLAH			128.50	2.09						9.69	581.39
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL 2 SIDE											
<b>SUB BLOCK 3</b>											
PANEL 3 DECK											
1	Lifting DP A-G	44-52.DP.SB3.SS13		2.89			0.537 x w	1.5496	2	0.77	46.49
2	Fiting DP A ke B	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
3	Fiting DP B ke C	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
4	Fiting DP C ke D	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
5	Fiting DP D ke E	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
6	Fiting DP E ke F	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
7	Fiting DP F ke G	44-52.DP.SB3.SS13	5.1			0.067 x l		0.34	2	0.17	10.25
8	Welding DP A ke B	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MINIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
9	Welding DP B ke C	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17
10	Welding DP C ke D	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17
11	Welding DP D ke E	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17
12	Welding DP E ke F	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17
13	Welding DP F ke G	44-52.DP.SB3.SS13	5.1		0.133 x l			0.68	4	0.17	10.17
14	Lifting Cantilever 46&49	46&49.BW.SB3.SS13.Sb		0.0107			0.537 x w	0.0057	2	0.00	0.17
15	Fiting Cantilever	46.BW.SB3.SS13.Sb	1.2			0.067 x l		0.08	2	0.04	2.41
16	Fiting Cantilever	49.BW.SB3.SS13.Sb	1.2			0.067 x l		0.08	2	0.04	2.41
17	Welding Cantilever	46.BW.SB3.SS13.Sb	2.4		0.133 x l			0.32	2	0.16	9.58
18	Welding Cantilever	49.BW.SB3.SS13.Sb	2.4		0.133 x l			0.32	2	0.16	9.58
19	Lifting DL	44-52.DL.SB3.SS13		0.317			0.537 x w	0.1700	2	0.08	5.10
20	Fiting DL ke DP	44-52.DL.SB3.SS13	4.8			0.067 x l		0.32	2	0.16	9.65
21	Fiting DL ke DP	44-52.DL.SB3.SS13	4.8			0.067 x l		0.32	2	0.16	9.65
22	Fiting DL ke DP	44-52.DL.SB3.SS13	4.8			0.067 x l		0.32	2	0.16	9.65
23	Welding DL ke DP	44-52.DL.SB3.SS13	9.6		0.133 x l			1.28	4	0.32	19.15
24	Welding DL ke DP	44-52.DL.SB3.SS13	9.6		0.133 x l			1.28	4	0.32	19.15
25	Welding DL ke DP	44-52.DL.SB3.SS13	9.6		0.133 x l			1.28	4	0.32	19.15
26	Lifting DT SB & PS	44-51.DT.SB3.SS13.Sb&PS		0.314			0.537 x w	0.1686	2	0.08	5.06
27	Fiting DT Sb ke DP	44.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
28	Fiting DT Sb ke DP	45.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
29	Fiting DT Sb ke DP	47.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
30	Fiting DT Sb ke DP	48.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
31	Fiting DT Sb ke DP	50.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
32	Fiting DT Sb ke DP	51.DT.SB3.SS13.Sb	4.42			0.067 x l		0.30	2	0.15	8.89
33	Fiting DT PS ke DP	44.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
34	Fiting DT PS ke DP	45.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
35	Fiting DT PS ke DP	47.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
36	Fiting DT PS ke DP	48.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
37	Fiting DT PS ke DP	50.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
38	Fiting DT PS ke DP	51.DT.SB3.SS13.PS	4.42			0.067 x l		0.30	2	0.15	8.89
39	Welding DT Sb ke DP	44.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING	JAM			MENTIT	
			(m)	(ton)	JO/unit	JO/unit	JO/unit					
40	Welding DT Sb ke DP	45.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64	
41	Welding DT Sb ke DP	47.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64	
42	Welding DT Sb ke DP	48.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64	
43	Welding DT Sb ke DP	50.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64	
44	Welding DT Sb ke DP	51.DT.SB3.SS13.Sb	8.84		0.133 x l			1.18	4	0.29	17.64	
45	Welding DT PS ke DP	44.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
46	Welding DT PS ke DP	45.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
47	Welding DT PS ke DP	47.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
48	Welding DT PS ke DP	48.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
49	Welding DT PS ke DP	50.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
50	Welding DT PS ke DP	51.DT.SB3.SS13.PS	8.84		0.133 x l			1.18	4	0.29	17.64	
51	Lifting Brack. of DT SB & PS	44-51.BDT.SB3.SS13.Sb&PS		0.096			0.537 x w	0.0517	2	0.03	1.55	
52	Fiting Brack. of DT Sb ke DT	44.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
53	Fiting Brack. of DT Sb ke DT	45.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
54	Fiting Brack. of DT Sb ke DT	47.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
55	Fiting Brack. of DT Sb ke DT	48.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
56	Fiting Brack. of DT Sb ke DT	50.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
57	Fiting Brack. of DT Sb ke DT	51.BDT.SB3.SS13.Sb	0.75			0.067 x l		0.05	2	0.03	1.51	
58	Fiting Brack. of DT PS ke DT	44.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
59	Fiting Brack. of DT PS ke DT	45.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
60	Fiting Brack. of DT PS ke DT	47.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
61	Fiting Brack. of DT PS ke DT	48.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
62	Fiting Brack. of DT PS ke DT	50.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
63	Fiting Brack. of DT PS ke DT	51.BDT.SB3.SS13.PS	0.75			0.067 x l		0.05	2	0.03	1.51	
64	Welding Brack. of DT Sb ke DT	44.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
65	Welding Brack. of DT Sb ke DT	45.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
66	Welding Brack. of DT Sb ke DT	47.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
67	Welding Brack. of DT Sb ke DT	48.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
68	Welding Brack. of DT Sb ke DT	50.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
69	Welding Brack. of DT Sb ke DT	51.BDT.SB3.SS13.Sb	0.75		0.133 x l			0.10	4	0.02	1.50	
70	Welding Brack. of DT PS ke DT	44.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50	



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
71	Welding Brack. of DT PS ke DT	45.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
72	Welding Brack. of DT PS ke DT	47.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
73	Welding Brack. of DT PS ke DT	48.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
74	Welding Brack. of DT PS ke DT	50.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
75	Welding Brack. of DT PS ke DT	51.BDT.SB3.SS13.PS	0.75		0.133 x l			0.10	4	0.02	1.50
76	Lifting Girder & DT Sb&PS	46&49.WF.SB3.SS13.Sb&PS		1.71			0.537 x w	0.9161	2	0.46	27.48
77	Fiting Girder & DT Sb	46.WF.SB3.SS13.Sb	9			0.067 x l		0.60	2	0.30	18.09
78	Fiting Girder & DT Sb	49.WF.SB3.SS13.Sb	9			0.067 x l		0.60	2	0.30	18.09
79	Fiting Girder & DT PS	46.WF.SB3.SS13.Sb	9			0.067 x l		0.60	2	0.30	18.09
80	Fiting Girder & DT PS	49.WF.SB3.SS13.Sb	9			0.067 x l		0.60	2	0.30	18.09
81	Welding Girder & DT Sb	46.WF.SB3.SS13.Sb	18		0.133 x l			2.39	4	0.60	35.91
82	Welding Girder & DT Sb	49.WF.SB3.SS13.Sb	18		0.133 x l			2.39	4	0.60	35.91
83	Welding Girder & DT PS	46.WF.SB3.SS13.Sb	18		0.133 x l			2.39	4	0.60	35.91
84	Welding Girder & DT PS	49.WF.SB3.SS13.Sb	18		0.133 x l			2.39	4	0.60	35.91
JUMLAH			396.79	5.33						14.82	889.2

PERAKITAN <i>BLOCK</i> 13											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	LIFTING	FITTING	WELDING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	Lifting Sub Block 2			2.09			0.537 x w	1.12	1	1.12	67.23
	Lifting Sub Block 3 (Deck)			5.33			0.537 x w	2.86	1	2.86	171.71
	Fiting SB 3 ke SB1		8.1			0.067 x l		0.54	1	0.54	32.56
	Fiting SB 3 ke SB2		8.1			0.067 x l		0.54	1	0.54	32.56
	Welding DP ke SP		10.2		0.133 x l			1.36	2	0.68	40.70
	Welding DP ke SP		10.2		0.133 x l			1.36	2	0.68	40.70
	Welding Brack. of SB1 ke SB3		3		0.133 x l			0.40	2	0.20	11.97
	Welding Brack. of SB2 ke SB3		3		0.133 x l			0.40	2	0.20	11.97
JUMLAH			42.60	7.42						6.82	409.40



SUB BLOCK 1 (STARBOARD) PANEL 1 (SIDE)								
NO	LIFTING		FITTING		WELDING		Durasi Real	Tenaga Kerja
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting SP G, I, J, K	0.79					0.79	1
2			Fiting SP G ke I	0.34			0.34	1
3			Fiting SP I ke J	0.33	Welding SP G ke I	0.68	0.68	3
4			Fiting SP J ke K	0.33	Welding SP I ke J	0.66	0.66	3
5					Welding SP J ke K	0.66	0.66	2
6	Lifting WF 46,49,52	0.24					0.24	1
7			Fiting WF ke SP	0.82			0.82	1
8					Welding WF ke SP	1.63	1.63	2
9	Lifting MF 44,45,47,48,50	0.06					0.06	1
10			Fiting MF ke SP	1.00			1.00	1
11					Welding MF ke SP	1.00	1.00	2
12	Lifting Brack. of MF 44,45,47,48,50	0.02					0.02	1
13			Fiting Brack. of MF of MF	0.20			0.20	1
14					Welding Brack. of MF of MF	0.20	0.20	2
15	Lifting Stringer 44-52	0.008					0.008	1
16			Fiting Stringer 44-52 ke SP	0.24			0.24	1
17					Welding Stringer 44-52 ke SP	0.48	0.48	2
	<b>TOTAL</b>	<b>1.12</b>		<b>3.27</b>		<b>5.30</b>	<b>9.03</b>	<b>5</b>

SUB BLOCK 2, PANEL 2								
NO	LIFTING		FITTING		WELDING		Durasi Real	Tenaga Kerja
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting SP G, I, J, K	0.79					0.79	1
2			Fiting SP G ke I	0.34			0.34	1
3			Fiting SP I ke J	0.33	Welding SP G ke I	0.68	0.68	3
4			Fiting SP J ke K	0.33	Welding SP I ke J	0.66	0.66	3
5					Welding SP J ke K	0.66	0.66	2
6	Lifting WF 46,49,52	0.24					0.24	1
7			Fiting WF ke SP	0.82			0.82	1
8					Welding WF ke SP	1.63	1.63	2



9	Lifting MF 44,45,47,48,50	0.06			0.06	1
10			Fiting MF ke SP	1.00	1.00	1
11					Welding MF ke SP	1.00 1.00 2
12	Lifting Brack. of MF 44,45,47,48,50	0.02			0.02	1
13			Fiting Brack. of MF of MF	0.20	0.20	1
14					Welding Brack. of MF of MF	0.20 0.20 2
15	Lifting Stringer 44-52	0.01			0.008	1
16			Fiting Stringer 44-52 ke SP	0.24	0.24	1
17					Welding Stringer 44-52 ke SP	0.48 0.48 2
	<b>TOTAL</b>	1.12		3.27	5.30	9.03 5

**SUB BLOCK 3 PANEL 3**

NO	LIFTING		FITTING		WELDING		Durasi Real	Tenaga Kerja
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting DP A-G	0.77					0.77	1
2			Fiting DP A ke B	0.17			0.17	1
3			Fiting DP B ke C	0.17	Welding DP A ke B	0.17	0.17	3
4			Fiting DP C ke D	0.17	Welding DP B ke C	0.17	0.17	3
5			Fiting DP D ke E	0.17	Welding DP C ke D	0.17	0.17	3
6			Fiting DP E ke F	0.17	Welding DP D ke E	0.17	0.17	3
7			Fiting DP F ke G	0.17	Welding DP E ke F	0.17	0.17	3
8					Welding DP F ke G	0.17	0.17	2
9	Lifting Cantilever 46&49	0.00					0.00	1
10			Fiting Cantilever	0.08			0.08	1
12					Welding Cantilever	0.32	0.32	2
13	Lifting DL	0.15					0.15	1
14			Fiting DL	0.48			0.48	1
15					Welding DL	0.96	0.96	2
16	Lifting DT SB & PS	0.08					0.08	1
17			Fiting DT Sb ke DP	0.89			0.89	1
18			Fiting DT PS ke DP	0.89	Welding DT Sb ke DP	1.76	1.76	3
19					Welding DT PS ke DP	1.76	1.76	2
20	Lifting Brack. of DT SB & PS	0.03					0.03	1





21			Fiting Brack. of DT Sb ke DT	0.15			0.15	1
22			Fiting Brack. of DT PS ke DT	0.15	Welding Brack. of DT Sb ke DT	0.15	0.15	3
23					Welding Brack. of DT PS ke DT	0.15	0.15	2
24	Lifting Girder & DT Sb & PS	0.46					0.46	1
25			Fiting Girder & DT Sb	0.60			0.60	1
26			Fiting Girder & DT PS	0.60	Welding Girder & DT Sb	1.20	1.20	3
27					Welding Girder & DT PS	1.20	1.20	2
<b>TOTAL</b>		1.49		4.87			8.52	12.39
								5

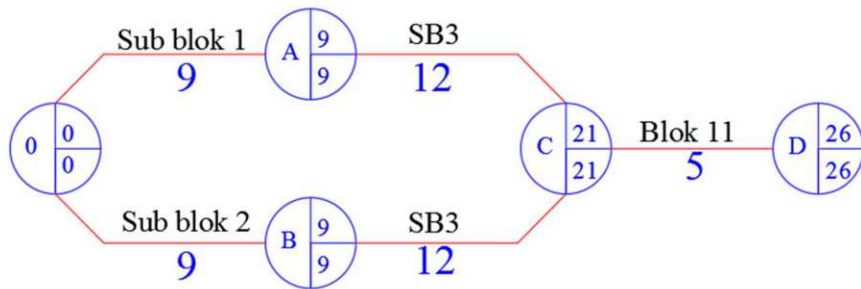
PERAKITAN BLOK 13								
NO	LIFTING		FITTING		WELDING		Durasi Real	Tenaga Kerja
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Sub Block 2	1.12					1.12	4
2	Lifting Sub Block 3 (Deck)	2.86					2.86	4
3			Fiting SB 3 ke SB1 dan SB2	0.54			0.54	3
4					Welding DP ke SP	0.68	0.68	1
5					Welding Brack. of SB1, SB2 ke SB3	0.20	0.20	2
<b>TOTAL</b>		3.98		0.54			0.88	5.403
								6

B. Hubungan ketergantungan blok 13

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis	EF - LF
A	Perakitan sub blok 1	-	9	5	0	9	0	9	Ya	0
B	Perakitan sub blok 2	-	9	5	0	9	0	9	Ya	0
C	Perakitan sub blok 3	A,B	12	10	9	21	9	21	Ya	0
D	Perakitan blok 13	C	5	5	21	26	21	26	Ya	0



C. Jaringan kerja blok 13





# BLOK 14



## A. Perhitungan dan perakitan blok 14

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP A, B, C, D, E	6-15.SP.SB1.SS14.Sb (L)		0.7			0.537 x w	0.38	1	0.38	23.00
2	Fitting SP A ke SP B	6-15.SP.SB1.SS14.Sb (L)	1			0.067 x l		0.07	1	0.07	4.02
3	Fitting SP C ke SP D	6-15.SP.SB1.SS14.Sb (M)	1.15			0.067 x l		0.08	1	0.08	4.62
4	Fitting SP AB ke SP CD	6-5.SP.SB1.SS14.Sb	7.05			0.067 x l		0.47	1	0.47	28.34
5	Welding SP A ke SP B	6-15.SP.SB1.SS14.Sb (L)	2		0.133 x l			0.27	2	0.13	7.98
6	Welding SP C ke SP D	6-15.SP.SB1.SS14.Sb (L)	2.3		0.133 x l			0.31	2	0.15	9.18
7	Welding SP AB ke SP CD	6-15.SP.SB1.SS14.Sb	14.1		0.133 x l			1.88	2	0.94	56.26
8	Lifting MF	6-13.MF.SB1.SS14.Sb		0.073			0.537 x w	0.039	1	0.04	2.35
9	Lifting WF 9&14	9, 14.WF.SB1.SS14.Sb		0.067			0.537 x w	0.036	1	0.04	2.15
10	Fitting MF ke SP	6.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
11	Fitting MF ke SP	7.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
12	Fitting MF ke SP	9.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
13	Fitting MF ke SP	10.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
14	Fitting MF ke SP	12.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
15	Fitting MF ke SP	13.MF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
16	Fitting WF ke SP	9.WF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
17	Fitting WF ke SP	14.WF.SB1.SS14.Sb	2.24			0.067 x l		0.15	1	0.15	9.00
18	Welding MF ke SP	6.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
19	Welding MF ke SP	7.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
20	Welding MF ke SP	9.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
21	Welding MF ke SP	10.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
22	Welding MF ke SP	12.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
23	Welding MF ke SP	13.MF.SB1.SS14.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
24	Welding WF ke SP	9.WF.SB1.SS14.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
25	Welding WF ke SP	14.WF.SB1.SS14.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
26	Lifting Brck. of MF	6-13.BM.SB1.SS14.Sb		0.024			0.537 x w	0.013	1	0.01	0.78
27	Lifting Brck. of WF 9&14	9, 14.BW.SB1.SS14.Sb		0.011			0.537 x w	0.006	1	0.01	0.34



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENTIT
28	Fitting Brck. of MF ke MF	6.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
29	Fitting Brck. of MF ke MF	7.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
30	Fitting Brck. of MF ke MF	9.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
31	Fitting Brck. of MF ke MF	10.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
32	Fitting Brck. of MF ke MF	12.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
33	Fitting Brck. of MF ke MF	13.BM.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
34	Fitting Brck. of WF ke WF	9.BW.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
35	Fitting Brck. of WF ke WF	14.BW.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
36	Welding Brck. of MF ke MF	6.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
37	Welding Brck. of MF ke MF	7.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
38	Welding Brck. of MF ke MF	9.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
39	Welding Brck. of MF ke MF	10.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
40	Welding Brck. of MF ke MF	12.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
41	Welding Brck. of MF ke MF	13.BM.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
42	Welding Brck. of WF ke WF	9.BW.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
43	Welding Brck. of WF ke WF	14.BW.SB1.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
JUMLAH			75.92	0.89						5.54	332.47
PANEL 9 VERT. BULKHEAD											
1	Lifting BP	15.BHP.SB1.SS14.Sb		0.13			0.537 x w	0.07	1	0.070	4.19
2	Lifting SF ke BP	15.ST.SB1.SS14.Sb		0.01			0.537 x w	0.003	1	0.003	0.20
3	Fitting SF ke BP	15.ST.SB1.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
4	Welding SF ke BP	15.ST.SB1.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
5	Lifting Brck. of SF ke SF	15.BS.SB1.SS14.Sb		0.004			0.537 x w	0.002	1	0.00	0.13
6	Fitting Brck. of SF ke SF	15.BS.SB1.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
7	Welding Brck. of SF ke SF	15.BS.SB1.SS14.Sb	1		0.133 x l			0.13	2	0.07	3.99
JUMLAH			8.08	0.14						0.61	36.83
PANEL 5 (LONGI. BULKHEAD)											
1	Lifting BP A dan B	11-15.BHP.SB1.SS14.Sb		0.26			0.537 x w	0.14	1	0.14	8.38
2	Fiting BP A ke Plate B	11-15.BHP.SB1.SS14.Sb	2.4			0.067 x l		0.16	1	0.16	9.65
3	Welding BP A ke B	11-15.BHP.SB1.SS14.Sb	4.8		0.133 x l			0.64	2	0.32	19.15
4	Lifting SF 12 - 14 ke BP	12-14.ST.SB1.SS14.Sb		0.045			0.537 x w	0.02	1	0.02	1.45



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
5	Fiting SF ke BP	12.ST.SB1.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
6	Fiting SF ke BP	13.ST.SB1.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
7	Fiting SF ke BP	14.ST.SB1.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
8	Welding SF ke BP	12.ST.SB1.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
9	Welding SF ke BP	13.ST.SB1.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
10	Welding SF ke BP	14.ST.SB1.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
11	Lifting Brck. of SF 12 - 14	12-14.BS.SB1.SS14.Sb		0.013			0.537 x w	0.01	1	0.01	0.43
12	Fiting Brck. of SF ke SF	12.BS.SB1.SS14.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
13	Fiting Brck. of SF ke SF	13.BS.SB1.SS14.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
14	Fiting Brck. of SF ke SF	14.BS.SB1.SS14.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
15	Welding Brck. of SF ke SF	12.BS.SB1.SS14.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
16	Welding Brck. of SF ke SF	13.BS.SB1.SS14.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
17	Welding Brck. of SF ke SF	14.BS.SB1.SS14.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
JUMLAH			28.44	0.32						2.07	124.02
1.35											
<b>SUB BLOCK 2 (PORT SIDE)</b>											
<b>SUB BLOCK 3 (VERTICAL BULKHEAD)</b>											
PANEL 7 VERT. BULKHEAD											
1	Lifting BP A, B, C, D	5.BHP.SB3.SS14		1.00			0.537 x w	0.54	1	0.54	32.28
2	Fitting BP A ke BP B	5.BHP.SB3.SS14	6			0.067 x l		0.40	1	0.40	24.12
3	Fitting BP C ke BP D	5.BHP.SB3.SS14	2.3			0.067 x l		0.15	1	0.15	9.25
4	Fitting BP AB ke BP CD	5.BHP.SB3.SS14	2.4			0.067 x l		0.16	1	0.16	9.66
5	Welding BP A dan B	5.BHP.SB3.SS14	12		0.133 x l			1.60	2	0.80	47.88
6	Welding BP C dan D	5.BHP.SB3.SS14	4.6		0.133 x l			0.61	2	0.31	18.35
7	Welding BP AB dan CD	5.BHP.SB3.SS14	4.8		0.133 x l			0.64	2	0.32	19.18
8	Lifting SF A-O ke BP fr 5	5A-D.ST.SB3.SS14 (Sb)		0.107	0.133 x l		0.537 x w	0.06	1	0.06	3.45
9	Fitting SF ke BP fr 5	5A-D.ST.SB3.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
10	Fitting SF ke BP fr 6	5A-D.ST.SB3.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
11	Fitting SF ke BP fr 7	5A-D.ST.SB3.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
12	Fitting SF ke BP fr 8	5A-D.ST.SB3.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
13	Fitting SF ke BP fr 9	5F-G.ST.SB3.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
14	Fitting SF ke BP fr 10	5F-G.ST.SB3.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
15	Fitting SF ke BP fr 11	5H.ST.SB3.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
16	Fitting SF ke BP fr 12	5I-J.ST.SB3.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
17	Fitting SF ke BP fr 13	5I-J.ST.SB3.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
18	Fitting SF ke BP fr 14	5L-O.ST.SB3.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
19	Fitting SF ke BP fr 15	5L-O.ST.SB3.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
20	Fitting SF ke BP fr 16	5L-O.ST.SB3.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
21	Fitting SF ke BP fr 17	5L-O.ST.SB3.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
22	Welding SF ke BP fr 5	5A-D.ST.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50
23	Welding SF ke BP fr 6	5A-D.ST.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50
24	Welding SF ke BP fr 7	5A-D.ST.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50
25	Welding SF ke BP fr 8	5A-D.ST.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50
26	Welding SF ke BP fr 9	5F-G.ST.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50
27	Welding SF ke BP fr 10	5F-G.ST.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50
28	Welding SF ke BP fr 11	5H.ST.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50
29	Welding SF ke BP fr 12	5I-J.ST.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50
30	Welding SF ke BP fr 13	5I-J.ST.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50
31	Welding SF ke BP fr 14	5L-O.ST.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50
32	Welding SF ke BP fr 15	5L-O.ST.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50
33	Welding SF ke BP fr 16	5L-O.ST.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50
34	Welding SF ke BP fr 17	5L-O.ST.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50
35	Lifting Brck. of SF A-O	5A-D.BS.SB3.SS14 (Sb)		0.054			0.537 x w	0.03	1	0.03	1.72
36	Fitting Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39			0.067 x l		0.29	1	0.29	17.63
37	Fitting Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39			0.067 x l		0.29	1	0.29	17.63
38	Fitting Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39			0.067 x l		0.29	1	0.29	17.63
39	Fitting Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39			0.067 x l		0.29	1	0.29	17.63
40	Fitting Brck. of SF ke SF	5F-G.BS.SB3.SS14 ( C )	4.39			0.067 x l		0.29	1	0.29	17.63
41	Fitting Brck. of SF ke SF	5F-G.BS.SB3.SS14 ( C )	4.39			0.067 x l		0.29	1	0.29	17.63



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT	
42	Fitting Brck. of SF ke SF	5H.BS.SB3.SS14 ( C )	4.39			0.067 x l		0.29	1	0.29	17.63	
43	Fitting Brck. of SF ke SF	5I-J.BS.SB3.SS14 ( C )	4.39			0.067 x l		0.29	1	0.29	17.63	
44	Fitting Brck. of SF ke SF	5I-J.BS.SB3.SS14 ( C )	4.39			0.067 x l		0.29	1	0.29	17.63	
45	Fitting Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39			0.067 x l		0.29	1	0.29	17.63	
46	Fitting Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39			0.067 x l		0.29	1	0.29	17.63	
47	Fitting Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39			0.067 x l		0.29	1	0.29	17.63	
48	Fitting Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39			0.067 x l		0.29	1	0.29	17.63	
49	Welding Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50	
50	Welding Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50	
51	Welding Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50	
52	Welding Brck. of SF ke SF	5A-D.BS.SB3.SS14 (Sb)	4.39		0.133 x l			0.58	2	0.29	17.50	
53	Welding Brck. of SF ke SF	5F-G.BS.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50	
54	Welding Brck. of SF ke SF	5F-G.BS.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50	
55	Welding Brck. of SF ke SF	5H.BS.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50	
56	Welding Brck. of SF ke SF	5I-J.BS.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50	
57	Welding Brck. of SF ke SF	5I-J.BS.SB3.SS14 ( C )	4.39		0.133 x l			0.58	2	0.29	17.50	
58	Welding Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50	
59	Welding Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50	
60	Welding Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50	
61	Welding Brck. of SF ke SF	5L-O.BS.SB3.SS14 (PS)	4.39		0.133 x l			0.58	2	0.29	17.50	
JUMLAH			231.68	1.1623						16.08	964.72	
PANEL 2 LONGI. BULKHEAD (SB)												
1	Lifting BP A dan B	5-11.BHP.SB3.SS14.Sb		0.390				0.537 x w	0.21	1	0.21	12.57
2	Fiting BP A ke Plate B	5-11.BHP.SB3.SS14.Sb	3.6			0.067 x l			0.24	1	0.24	14.47
3	Welding BP A ke B	5-11.BHP.SB3.SS14.Sb	7.2		0.133 x l				0.96	2	0.48	28.73
4	Lifting SF 6 - 10	6-10.ST.SB3.SS14.Sb		0.057				0.537 x w	0.03	1	0.03	1.85
5	Fiting SF ke BP	6.ST.SB3.SS14.Sb	2.19			0.067 x l			0.15	1	0.15	8.82
6	Fiting SF ke BP	7.ST.SB3.SS14.Sb	2.19			0.067 x l			0.15	1	0.15	8.82
7	Fiting SF ke BP	8.ST.SB3.SS14.Sb	2.19			0.067 x l			0.15	1	0.15	8.82





NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
8	Fiting SF ke BP	9.ST.SB3.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
9	Fiting SF ke BP	10.ST.SB3.SS14.Sb	2.19			0.067 x l		0.15	1	0.15	8.82
10	Welding SF ke BP	6.ST.SB3.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
11	Welding SF ke BP	7.ST.SB3.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
12	Welding SF ke BP	8.ST.SB3.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
13	Welding SF ke BP	9.ST.SB3.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
14	Welding SF ke BP	10.ST.SB3.SS14.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
15	Lifting Brck. of SF 6 - 10	6-10.BS.SB3.SS14.Sb		0.017			0.537 x w	0.01	1	0.01	0.54
16	Fiting Brck. of SF ke SF	6.BS.SB3.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
17	Fiting Brck. of SF ke SF	7.BS.SB3.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
18	Fiting Brck. of SF ke SF	8.BS.SB3.SS14.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
19	Fiting Brck. of SF ke SF	9.BS.SB3.SS14.Sb	0.25			0.067 x l		0.02	1	0.02	1.01
20	Fiting Brck. of SF ke SF	10.BS.SB3.SS14.Sb	0.5			0.067 x l		0.03	1	0.03	2.01
21	Welding Brck. of SF ke SF	6.BS.SB3.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
22	Welding Brck. of SF ke SF	7.BS.SB3.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
23	Welding Brck. of SF ke SF	8.BS.SB3.SS14.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
24	Welding Brck. of SF ke SF	9.BS.SB3.SS14.Sb	0.25		0.133 x l			0.03	2	0.02	1.00
25	Welding Brck. of SF ke SF	10.BS.SB3.SS14.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
JUMLAH			47.70	0.46						3.43	205.76
PANEL 3 LONGI. BULKHEAD (PS)											
1	Lifting BP A dan B	5-11.BHP.SB3.SS14.PS		0.390			0.537 x w	0.21	1	0.21	12.57
2	Fiting BP A ke Plate B	5-11.BHP.SB3.SS14.PS	3.6			0.067 x l		0.24	1	0.24	14.47
3	Welding BP A ke B	5-11.BHP.SB3.SS14.PS	3.6		0.133 x l			0.48	2	0.24	14.36
4	Lifting SF 6 - 10	6-10.ST.SB3.SS14.PS		0.057			0.537 x w	0.03	1	0.03	1.85
5	Fiting SF ke BP	6.ST.SB3.SS14.PS	2.19			0.067 x l		0.15	1	0.15	8.82
6	Fiting SF ke BP	7.ST.SB3.SS14.PS	2.19			0.067 x l		0.15	1	0.15	8.82
7	Fiting SF ke BP	8.ST.SB3.SS14.PS	2.19			0.067 x l		0.15	1	0.15	8.82
8	Fiting SF ke BP	9.ST.SB3.SS14.PS	2.19			0.067 x l		0.15	1	0.15	8.82
9	Fiting SF ke BP	10.ST.SB3.SS14.PS	2.19			0.067 x l		0.15	1	0.15	8.82



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
10	Welding SF ke BP	6.ST.SB3.SS14.PS	4.39		0.133 x l			0.58	2	0.29	17.50
11	Welding SF ke BP	7.ST.SB3.SS14.PS	4.39		0.133 x l			0.58	2	0.29	17.50
12	Welding SF ke BP	8.ST.SB3.SS14.PS	4.39		0.133 x l			0.58	2	0.29	17.50
13	Welding SF ke BP	9.ST.SB3.SS14.PS	4.39		0.133 x l			0.58	2	0.29	17.50
14	Welding SF ke BP	10.ST.SB3.SS14.PS	4.39		0.133 x l			0.58	2	0.29	17.50
15	Lifting Brck. of SF 6 - 10	6-10.BS.SB3.SS14.PS		0.017			0.537 x w	0.01	1	0.01	0.54
16	Fiting Brck. of SF ke SF	6.BS.SB3.SS14.PS	0.5			0.067 x l		0.03	1	0.03	2.01
17	Fiting Brck. of SF ke SF	7.BS.SB3.SS14.PS	0.5			0.067 x l		0.03	1	0.03	2.01
18	Fiting Brck. of SF ke SF	8.BS.SB3.SS14.PS	0.25			0.067 x l		0.02	1	0.02	1.01
19	Fiting Brck. of SF ke SF	9.BS.SB3.SS14.PS	0.25			0.067 x l		0.02	1	0.02	1.01
20	Fiting Brck. of SF ke SF	10.BS.SB3.SS14.PS	0.5			0.067 x l		0.03	1	0.03	2.01
21	Welding Brck. of SF ke SF	6.BS.SB3.SS14.PS	0.5		0.133 x l			0.07	2	0.03	2.00
22	Welding Brck. of SF ke SF	7.BS.SB3.SS14.PS	0.5		0.133 x l			0.07	2	0.03	2.00
23	Welding Brck. of SF ke SF	8.BS.SB3.SS14.PS	0.25		0.133 x l			0.03	2	0.02	1.00
24	Welding Brck. of SF ke SF	9.BS.SB3.SS14.PS	0.25		0.133 x l			0.03	2	0.02	1.00
25	Welding Brck. of SF ke SF	10.BS.SB3.SS14.PS	0.5		0.133 x l			0.07	2	0.03	2.00
JUMLAH			44.10	0.4642						3.19	191.39
PANEL 8 VERT. BULKHEAD FR 11											
1	Lifting BP A, B, C, D	11.BHP.SB1.SS14		1.002			0.537 x w	0.54	1	0.54	32.28
2	Fitting BP A ke BP B	11.BHP.SB1.SS14	6			0.067 x l		0.40	1	0.40	24.12
3	Fitting BP C ke BP D	11.BHP.SB1.SS14	2.3			0.067 x l		0.15	1	0.15	9.25
4	Fitting BP AB ke BP CD	11.BHP.SB1.SS14	2.4			0.067 x l		0.16	1	0.16	9.66
5	Welding BP A dan B	11.BHP.SB1.SS14	12		0.133 x l	0.067 x l		1.60	2	0.80	47.88
6	Welding BP C dan D	11.BHP.SB1.SS14	4.6		0.133 x l			0.61	2	0.31	18.35
7	Welding BP AB dan CD	11.BHP.SB1.SS14	4.8		0.133 x l			0.64	2	0.32	19.18
8	Lifting SF A-O ke BP	11A-D.ST.SB1.SS14 (Sb)		0.107	0.133 x l		0.537 x w	0.06	1	0.06	3.45
9	Fitting SF ke BP	11A-D.ST.SB1.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
10	Fitting SF ke BP	11A-D.ST.SB1.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
11	Fitting SF ke BP	11A-D.ST.SB1.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
12	Fitting SF ke BP	11A-D.ST.SB1.SS14 (Sb)	2.19			0.067 x l		0.15	1	0.15	8.82
13	Fitting SF ke BP	11F-G.ST.SB1.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
14	Fitting SF ke BP	11F-G.ST.SB1.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
15	Fitting SF ke BP	11H.ST.SB1.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
16	Fitting SF ke BP	11I-J.ST.SB1.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
17	Fitting SF ke BP	11I-J.ST.SB1.SS14 ( C )	2.19			0.067 x l		0.15	1	0.15	8.82
18	Fitting SF ke BP	11L-O.ST.SB1.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
19	Fitting SF ke BP	11L-O.ST.SB1.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
20	Fitting SF ke BP	11L-O.ST.SB1.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
21	Fitting SF ke BP	11L-O.ST.SB1.SS14 (PS)	2.19			0.067 x l		0.15	1	0.15	8.82
22	Welding SF ke BP	11A-D.ST.SB1.SS14 (Sb)	4.39			0.133 x l		0.58	2	0.29	17.50
23	Welding SF ke BP	11A-D.ST.SB1.SS14 (Sb)	4.39			0.133 x l		0.58	2	0.29	17.50
24	Welding SF ke BP	11A-D.ST.SB1.SS14 (Sb)	4.39			0.133 x l		0.58	2	0.29	17.50
25	Welding SF ke BP	11A-D.ST.SB1.SS14 (Sb)	4.39			0.133 x l		0.58	2	0.29	17.50
26	Welding SF ke BP	11F-G.ST.SB1.SS14 ( C )	4.39			0.133 x l		0.58	2	0.29	17.50
27	Welding SF ke BP	11F-G.ST.SB1.SS14 ( C )	4.39			0.133 x l		0.58	2	0.29	17.50
28	Welding SF ke BP	11H.ST.SB1.SS14 ( C )	4.39			0.133 x l		0.58	2	0.29	17.50
29	Welding SF ke BP	11I-J.ST.SB1.SS14 ( C )	4.39			0.133 x l		0.58	2	0.29	17.50
30	Welding SF ke BP	11I-J.ST.SB1.SS14 ( C )	4.39			0.133 x l		0.58	2	0.29	17.50
31	Welding SF ke BP	11L-O.ST.SB1.SS14 (PS)	4.39			0.133 x l		0.58	2	0.29	17.50
32	Welding SF ke BP	11L-O.ST.SB1.SS14 (PS)	4.39			0.133 x l		0.58	2	0.29	17.50
33	Welding SF ke BP	11L-O.ST.SB1.SS14 (PS)	4.39			0.133 x l		0.58	2	0.29	17.50
34	Welding SF ke BP	11L-O.ST.SB1.SS14 (PS)	4.39			0.133 x l		0.58	2	0.29	17.50
35	Lifting Brck. of SF A-O ke SF	11A-D.BS.SB1.SS14 (Sb)		0.054			0.537 x w	0.03	1	0.03	1.72
36	Fitting Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5			0.067 x l		0.03	1	0.03	2.01
37	Fitting Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5			0.067 x l		0.03	1	0.03	2.01
38	Fitting Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5			0.067 x l		0.03	1	0.03	2.01
39	Fitting Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5			0.067 x l		0.03	1	0.03	2.01



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT	
40	Fitting Brck. of SF ke SF	11F-G.BS.SB1.SS14 ( C )	0.5			0.067 x l		0.03	1	0.03	2.01	
41	Fitting Brck. of SF ke SF	11F-G.BS.SB1.SS14 ( C )	0.5			0.067 x l		0.03	1	0.03	2.01	
42	Fitting Brck. of SF ke SF	11H.BS.SB1.SS14 ( C )	0.5			0.067 x l		0.03	1	0.03	2.01	
43	Fitting Brck. of SF ke SF	11I-J.BS.SB1.SS14 ( C )	0.5			0.067 x l		0.03	1	0.03	2.01	
44	Fitting Brck. of SF ke SF	11I-J.BS.SB1.SS14 ( C )	0.5			0.067 x l		0.03	1	0.03	2.01	
45	Fitting Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5			0.067 x l		0.03	1	0.03	2.01	
46	Fitting Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5			0.067 x l		0.03	1	0.03	2.01	
47	Fitting Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5			0.067 x l		0.03	1	0.03	2.01	
48	Fitting Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5			0.067 x l		0.03	1	0.03	2.01	
49	Welding Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5		0.133 x l			0.07	2	0.03	2.00	
50	Welding Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5		0.133 x l			0.07	2	0.03	2.00	
51	Welding Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5		0.133 x l			0.07	2	0.03	2.00	
52	Welding Brck. of SF ke SF	11A-D.BS.SB1.SS14 (Sb)	0.5		0.133 x l			0.07	2	0.03	2.00	
53	Welding Brck. of SF ke SF	11F-G.BS.SB1.SS14 ( C )	0.5		0.133 x l			0.07	2	0.03	2.00	
54	Welding Brck. of SF ke SF	11F-G.BS.SB1.SS14 ( C )	0.5		0.133 x l			0.07	2	0.03	2.00	
55	Welding Brck. of SF ke SF	11H.BS.SB1.SS14 ( C )	0.5		0.133 x l			0.07	2	0.03	2.00	
56	Welding Brck. of SF ke SF	11I-J.BS.SB1.SS14 ( C )	0.5		0.133 x l			0.07	2	0.03	2.00	
57	Welding Brck. of SF ke SF	11I-J.BS.SB1.SS14 ( C )	0.5		0.133 x l			0.07	2	0.03	2.00	
58	Welding Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5		0.133 x l			0.07	2	0.03	2.00	
59	Welding Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5		0.133 x l			0.07	2	0.03	2.00	
60	Welding Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5		0.133 x l			0.07	2	0.03	2.00	
61	Welding Brck. of SF ke SF	11L-O.BS.SB1.SS14 (PS)	0.5		0.133 x l			0.07	2	0.03	2.00	
JUMLAH			130.64	1.16						9.33	560.07	
				3.25								
<b>SUB BLOCK 4 (DECK)</b>												
PANEL 11 DECK												
1	Lifting DP A-N	5-15.DP.SB4.SS14		3.01				0.537 x w	1.62	1	0.809	48.56
2	Fiting DP A ke B	5-15.DP.SB4.SS14	6			0.067 x l			0.40	1	0.201	12.06
3	Fiting DP C ke D	5-15.DP.SB4.SS14	1.10			0.067 x l			0.07	1	0.037	2.22



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT	
4	Fiting DP AB ke CD	5-15.DP.SB4.SS14	1.51			0.067 x l		0.10	1	0.051	3.04	
5	Fiting DP E ke B	5-15.DP.SB4.SS14	6			0.067 x l		0.40	1	0.201	12.06	
6	Fiting DP E ke F	5-15.DP.SB4.SS14	1.5			0.067 x l		0.10	1	0.050	3.02	
7	Fiting DP G ke E	5-15.DP.SB4.SS14	6			0.067 x l		0.40	1	0.201	12.06	
8	Fiting DP G ke H	5-15.DP.SB4.SS14	1.5			0.067 x l		0.10	1	0.050	3.02	
9	Fiting DP I ke G	5-15.DP.SB4.SS14	6			0.067 x l		0.40	1	0.201	12.06	
10	Fiting DP I ke J	5-15.DP.SB4.SS14	1.5			0.067 x l		0.10	1	0.050	3.02	
11	Fiting DP K ke I	5-15.DP.SB4.SS14	6			0.067 x l		0.40	1	0.201	12.06	
12	Fiting DP K ke L	5-15.DP.SB4.SS14	1.5			0.067 x l		0.10	1	0.050	3.02	
13	Fiting DP M ke K	5-15.DP.SB4.SS14	6			0.067 x l		0.40	1	0.201	12.06	
14	Fiting DP M ke N	5-15.DP.SB4.SS14	1.5			0.067 x l		0.10	1	0.050	3.02	
15	Welding DP A ke B	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
16	Welding DP C ke D	5-15.DP.SB4.SS14	2.21			0.133 x l		0.29	2	0.147	8.80	
17	Welding DP AB ke CD	5-15.DP.SB4.SS14	3.02			0.133 x l		0.40	2	0.201	12.05	
18	Welding DP E ke B	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
19	Welding DP E ke F	5-15.DP.SB4.SS14	3			0.133 x l		0.40	2	0.200	11.97	
20	Welding DP F ke D	5-15.DP.SB4.SS14	2.21			0.133 x l		0.29	2	0.147	8.80	
21	Welding DP G ke E	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
22	Welding DP G ke H	5-15.DP.SB4.SS14	3			0.133 x l		0.40	2	0.200	11.97	
23	Welding DP H ke F	5-15.DP.SB4.SS14	2.21			0.133 x l		0.29	2	0.147	8.80	
24	Welding DP I ke G	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
25	Welding DP I ke J	5-15.DP.SB4.SS14	3			0.133 x l		0.40	2	0.200	11.97	
26	Welding DP J ke H	5-15.DP.SB4.SS14	2.21			0.133 x l		0.29	2	0.147	8.80	
27	Welding DP K ke I	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
28	Welding DP K ke L	5-15.DP.SB4.SS14	3			0.133 x l		0.40	2	0.200	11.97	
29	Welding DP L ke J	5-15.DP.SB4.SS14	2.21			0.133 x l		0.29	2	0.147	8.80	
30	Welding DP M ke K	5-15.DP.SB4.SS14	12			0.133 x l		1.60	2	0.798	47.88	
31	Welding DP M ke N	5-15.DP.SB4.SS14	3			0.133 x l		0.40	2	0.200	11.97	
32	Lifting DL	5-15.DL.SB4.SS14."C, Sb, PS		0.188				0.537 x w	0.10	1	0.050	3.02



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
33	Fiting DL ke DP	5-15.DL.SB4.SS14."C	5.7			0.067 x l		0.38	1	0.191	11.46
34	Fiting DL ke DP	11-15.DL.SB4.SS14.PS	3.4			0.067 x l		0.23	1	0.115	6.93
35	Fiting DL ke DP	11-15.DL.SB4.SS14.Sb	3.4			0.067 x l		0.23	1	0.115	6.93
36	Welding DL ke DP	5-15.DL.SB4.SS14."C	11.4		0.133 x l			1.52	2	0.758	45.49
37	Welding DL ke DP	11-15.DL.SB4.SS14.PS	6.9		0.133 x l			0.92	2	0.458	27.51
38	Welding DL ke DP	11-15.DL.SB4.SS14.Sb	6.9		0.133 x l			0.92	2	0.458	27.51
39	Lifting DTs 6-10 Sb & PS	6-10.DT.SB4.SS14.Sb & PS		0.32			0.537 x w	0.17	1	0.086	5.18
40	Lifting DTs 12-15 Sb & PS	12-15.DT.SB4.SS14.Sb & PS		0.27				0.15	1	0.074	4.42
41	Fiting Deck Tranverse Sb	6.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
42	Fiting Deck Tranverse Sb	7.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
43	Fiting Deck Tranverse Sb	8.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
44	Fiting Deck Tranverse Sb	9.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
45	Fiting Deck Tranverse Sb	10.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
46	Fiting Deck Tranverse Sb	12.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
47	Fiting Deck Tranverse Sb	13.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
48	Fiting Deck Tranverse Sb	14.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
49	Fiting Deck Tranverse Sb	15.DT.SB4.SS14.Sb	4.4			0.067 x l		0.29	1	0.147	8.84
50	Welding Deck Tranverse Sb	6.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
51	Welding Deck Tranverse Sb	7.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
52	Welding Deck Tranverse Sb	8.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
53	Welding Deck Tranverse Sb	9.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
54	Welding Deck Tranverse Sb	10.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
55	Welding Deck Tranverse Sb	12.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
56	Welding Deck Tranverse Sb	13.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
57	Welding Deck Tranverse Sb	14.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
58	Welding Deck Tranverse Sb	15.DT.SB4.SS14.Sb	8.8		0.133 x l			1.17	2	0.585	35.11
59	Fiting Deck Tranverse PS	6.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
60	Fiting Deck Tranverse PS	7.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	LIFTING JO/unit	FITTING JO/unit	WELDING JO/unit			JAM	MENIT
61	Fiting Deck Tranverse PS	8.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
62	Fiting Deck Tranverse PS	9.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
63	Fiting Deck Tranverse PS	10.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
64	Fiting Deck Tranverse PS	12.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
65	Fiting Deck Tranverse PS	13.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
66	Fiting Deck Tranverse PS	14.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
67	Fiting Deck Tranverse PS	15.DT.SB4.SS14.PS	4.4			0.067 x l		0.29	1	0.147	8.84
68	Welding Deck Tranverse PS	6.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
69	Welding Deck Tranverse PS	7.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
70	Welding Deck Tranverse PS	8.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
71	Welding Deck Tranverse PS	9.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
72	Welding Deck Tranverse PS	10.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
73	Welding Deck Tranverse PS	12.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
74	Welding Deck Tranverse PS	13.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
75	Welding Deck Tranverse PS	14.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
76	Welding Deck Tranverse PS	15.DT.SB4.SS14.PS	8.8			0.133 x l		1.17	2	0.585	35.11
JUMLAH			422.55	3.80						24.57	1474.08

NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
	(m)	(ton)	JO/unit	JO/unit	JO/unit				
Lifting Panel 9 (Vert. Bulkhead)		0.14			0.537 x w	0.08	1	0.08	4.52
Fiting Panel 9 (Vert. Bulkhead) ke Panel 1 (Side)	2.3			0.067 x l		0.15	1	0.15	9.25
Welding BP ke SP	4.6		0.133 x l			0.61	2	0.31	18.35
JUMLAH	6.90	0.14						0.54	32.12
Lifting Panel 5 (Longi. Bulkhead)		0.32			0.537 x w	0.17	1	0.17	10.26
Fiting Panel 5 (Longi. Bulkhead) ke Panel 9 (Vert. Bulkhead)	2.4			0.067 x l		0.16	1	0.16	9.65



NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
	(m)	(ton)	JO/unit	JO/unit	JO/unit				
Welding Longi. BP ke Vert. BP	4.8		0.133 x l			0.64	2	0.32	19.15
JUMLAH	7.20	0.32						0.65	39.06
	14.10	0.46						1.19	71.18

### SUB BLOK 2

NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
	(m)	(ton)	JO/unit	JO/unit	JO/unit				
Lifting Panel 10 (Vert. Bulkhead)		0.14			0.537 x w	0.08	1	0.08	4.52
Fiting Panel 10 (Vert. Bulkhead) ke Panel 4 (Side)	2.3			0.067 x l		0.15	1	0.15	9.25
Welding BP ke SP	4.6		0.133 x l			0.61	2	0.31	18.35
JUMLAH	6.90	0.14						0.54	32.12
Lifting Panel 5 (Longi. Bulkhead)		0.32			0.537 x w	0.17	1	0.17	10.26
Fiting Panel 5 (Longi. Bulkhead) ke Panel 10 (Vert. Bulkhead)	2.4			0.067 x l		0.16	1	0.16	9.65
Welding Longi. BP ke Vert. BP	4.8		0.133 x l			0.64	2	0.32	19.15
JUMLAH	7.20	0.32						0.65	39.06
	14.10	0.46						1.19	71.18

### SUB BLOK 3

NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING				





	ANG	AT	JO/unit	JO/unit	JO/unit		TENAGA KERJA		
	(m)	(ton)						JAM	MENIT
Lifting Panel 2 (Longi. Bulkhead)		0.46			0.537 x w	0.25	1	0.25	14.96
Fiting Panel 2 ke Panel 7 (Vert. Bulkhead)	2.3			0.067 x l		0.15	1	0.15	9.25
Welding Longi. Bulkhead ke Vert. Bulkhead	4.6		0.133 x l			0.61	2	0.31	18.35
JUMLAH	6.90	0.46						0.71	42.56
Lifting Panel 3 (Longi. Bulkhead)		0.46			0.537 x w	0.25	1	0.25	14.96
Fiting Panel 3 ke Panel 7 (Vert. Bulkhead)	2.3			0.067 x l		0.15	1	0.15	9.25
Welding Longi. Bulkhead ke Vert. Bulkhead	4.6		0.133 x l			0.61	2	0.31	18.35
JUMLAH	6.90	0.46						0.71	42.56
Lifting Panel 8 (Vert. Bulkhead)		1.16			0.537 x w	0.62	1	0.62	37.45
Fiting Panel 8 ke Panel 2 dan 3	4.6			0.067 x l		0.31	1	0.31	18.49
Welding Longi. Bulkhead ke Vert. Bulkhead	9.2		0.133 x l			1.22	2	0.61	36.71
JUMLAH	13.80	1.16						1.54	92.65
	27.60	2.09						2.96	177.76

NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
	(m)	(ton)	JO/unit	JO/unit	JO/unit				
Lifting Sub-Blok 1 (Starboard))		1.35			0.537 x w	0.72	1	0.72	43.40
Fiting Sub-Blok 1 ke Sub-Blok 3	6.9			0.067 x l		0.46	1	0.46	27.74
Welding Vert. Bulkhead fr 5 ke SP	4.6		0.133 x l			0.61	2	0.31	18.35
Welding Vert. Bulkhead fr 11 ke SP	4.6					0.61	2	0.31	18.35
Welding Long. Bulkhead ke Vert. Bulkhead fr 11	4.6					0.61	2	0.31	18.35
JUMLAH	20.70	1.35						2.10	126.20
Lifting Sub-Blok 2 (Port Side)		1.35			0.537 x w	0.72	1	0.72	43.40



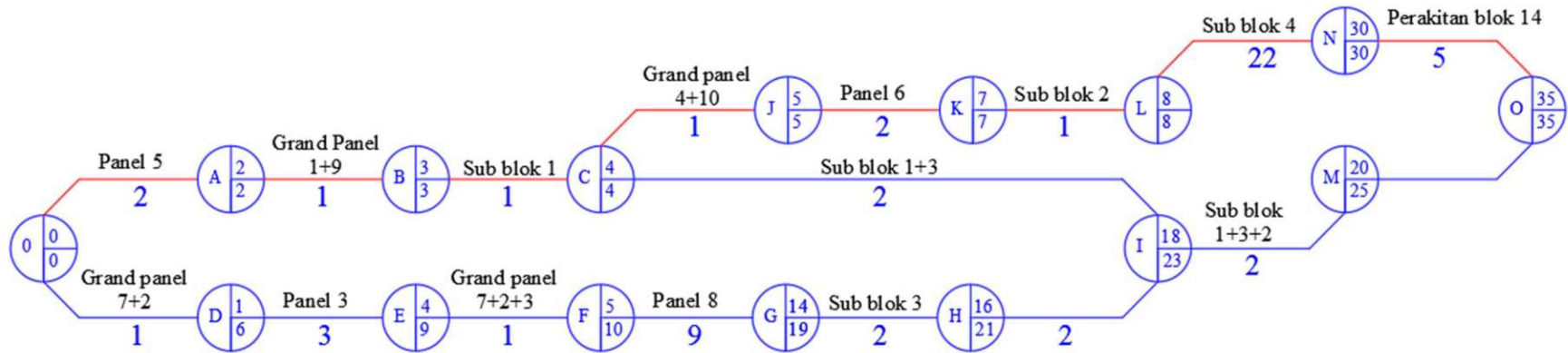
NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
	PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
	(m)	(ton)	JO/unit	JO/unit	JO/unit				
Fiting Sub-Blok 2 ke Sub-Blok 3	6.9			0.067 x l		0.46	1	0.46	27.74
Welding Vert. Bulkhead fr 5 ke SP	4.6		0.133 x l			0.61	2	0.31	18.35
Welding Vert. Bulkhead fr 11 ke SP	4.6					0.61	2	0.31	18.35
Welding Long. Bulkhead ke Vert. Bulkhead fr 11	4.6					0.61	2	0.31	18.35
JUMLAH	20.70	1.35						2.10	126.20
Lifting Sub-Blok 4 (Deck)		3.80			0.537 x w	2.04	1	2.04	122.37
Fiting Sub-Blok 4 (Deck) ke SB 1, SB 2, SB 3	14.21			0.067 x l		0.95	1	0.95	57.11
Welding DP ke SP SB1 & SB2	28.41		0.133 x l			3.78	2	1.89	113.36
Welding Brck. of SB1 ke SB4	4					0.53	2	0.27	15.96
Welding Brck. of SB2 ke SB4	4					0.53	2	0.27	15.96
JUMLAH	50.62	3.80						5.41	324.76



B. Hubungan ketergantungan blok 14

Urutan	Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Panel 5	-	2	5	0	2	0	2	Iya
B	Grand Panel 1+9	A	1	5	2	3	2	3	Iya
C	Sub blok 1	B	1	5	3	4	3	4	Iya
D	Grand panel 7+2	-	1	5	0	1	10	11	Tidak
E	Panel 3	D	3	5	1	4	11	14	Tidak
F	Grand panel 7+2+3	E	1	5	4	5	14	15	Tidak
G	Panel 8	F	9	5	5	14	15	24	Tidak
H	Sub blok 3	G	2	5	14	16	24	26	Tidak
I	Sub blok 1+3	C,H	2	5	16	18	26	28	Tidak
J	Grand panel 4+10	C	1	5	4	5	4	5	Iya
K	Panel 6	J	2	5	5	7	5	7	Iya
L	Sub blok 2	K	1	5	7	8	7	8	Iya
M	Sub blok 1+3+2	I	2	5	18	20	28	30	Tidak
N	Sub blok 4	L	22	5	8	30	8	30	Iya
O	Perakitan Blok 14	M,N	5	5	30	35	30	35	Iya

C. Jaringan kerja blok 14





# BLOK 15



hitungan dan perakitan blok 15

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO
			PANJANG	BERAT	WELDING	FITTING	LIFTING	
			(m)	(ton)	JO/unit	JO/unit	JO/unit	
<b>SUB BLOCK 1 (VERT.BULKHEAD)</b>								
1	Lifting BP A, B, C, D	25.BHP.SB1.SS15		0.938			0.537 x w	0.50
2	Fiting BP A ke B	25.BHP.SB1.SS15	6			0.067 x l		0.40
3	Fiting BP C ke D	25.BHP.SB1.SS15	2.3					0.15
4	Fiting BP AB ke CD	25.BHP.SB1.SS15	2.4					0.16
5	Welding BP A dan B	25.BHP.SB1.SS15	12		0.133 x l			1.60
6	Welding BP C dan D	25.BHP.SB1.SS15	4.6					0.61
7	Welding BP AB dan CD	25.BHP.SB1.SS15	4.8					0.64
8	Lifting SF ke BP	25.ST.SB1.SS15		0.107			0.537 x w	0.06
9	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
10	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
11	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
12	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
13	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
14	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
15	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
16	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
17	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
18	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
19	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
20	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
21	Fiting SF ke BP	25.ST.SB1.SS15	2.19			0.067 x l		0.15
22	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
23	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
24	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
25	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
26	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
27	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
28	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
29	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
30	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
31	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
32	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
33	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
34	Welding SF ke BP	25.ST.SB1.SS15	4.39		0.133 x l			0.58
35	Lifting Brck. of SF	25.BS.SB1.SS15		0.054			0.537 x w	0.03
36	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
37	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
38	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
39	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
40	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
41	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
42	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
43	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
44	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
45	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
46	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
47	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
48	Fiting Brck. of SF ke SF	25.BS.SB1.SS15	0.50			0.067 x l		0.03
49	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x l			0.07
50	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x l			0.07
51	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x l			0.07



	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	
	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
53	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
54	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
55	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
56	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
57	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
58	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
59	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
60	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
61	Welding Brck. of SF ke SF	25.BS.SB1.SS15	0.50		0.133 x 1			0.07
<b>JUMLAH</b>			130.64	1.10				
<b>SUB BLOCK 2 (STARBOARD)</b>								
1	Lifting SP A dan B	16-25.SP.SB2.SS15.Sb		0.577			0.537 x w	0.31
2	Fiting SidePlate A ke plat B	16-25.SP.SB2.SS15.Sb	5.7			0.067 x 1		0.38
3	Welding SP A dan B	16-25.SP.SB2.SS15.Sb	11.4		0.133 x 1			1.52
4	Lifting MF 17,18,20,21,23,24	MF.SB2.SS15.Sb		0.073			0.537 x w	0.04
5	Lifting WF 16,19,22	WF.SB2.SS15.Sb		0.100				0.05
6	Fiting MF ke SP	17.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
7	Fiting MF ke SP	18.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
8	Fiting MF ke SP	20.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
9	Fiting MF ke SP	21.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
10	Fiting MF ke SP	23.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
11	Fiting MF ke SP	24.MF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
12	Fiting WF ke SP	16.WF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
13	Fiting WF ke SP	19.WF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
14	Fiting WF ke SP	22.WF.SB2.SS15.Sb	2.24			0.067 x 1		0.15
15	Welding MF ke SP	17.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
16	Welding MF ke SP	18.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
17	Welding MF ke SP	20.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
18	Welding MF ke SP	21.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
19	Welding MF ke SP	23.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
20	Welding MF ke SP	24.MF.SB2.SS15.Sb	2.24		0.133 x 1			0.30
21	Welding WF ke SP	16.WF.SB2.SS15.Sb	4.48		0.133 x 1			0.60
22	Welding WF ke SP	19.WF.SB2.SS15.Sb	4.48		0.133 x 1			0.60
23	Welding WF ke SP	22.WF.SB2.SS15.Sb	4.48		0.133 x 1			0.60
24	Lifting Brck. of MF 17,18,20,21,23,24	BM.SB2.SS15.Sb		0.024			0.537 x w	0.01
25	Lifting Brck. of WF 16,19,22	BW.SB2.SS15.Sb		0.016				0.01
26	Fiting Brck. of MF ke MF	17.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
27	Fiting Brck. of MF ke MF	18.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
28	Fiting Brck. of MF ke MF	20.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
29	Fiting Brck. of MF ke MF	21.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
30	Fiting Brck. of MF ke MF	23.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
31	Fiting Brck. of MF ke MF	24.BM.SB2.SS15.Sb	0.5			0.067 x 1		0.03
32	Fiting Brck. of WF ke WF	16.BW.SB2.SS15.Sb	0.5			0.067 x 1		0.03
33	Fiting Brck. of WF ke WF	19.BW.SB2.SS15.Sb	0.5			0.067 x 1		0.03
34	Fiting Brck. of WF ke WF	22.BW.SB2.SS15.Sb	0.5			0.067 x 1		0.03
35	Welding Brck. of MF ke MF	17.BM.SB2.SS15.Sb	0.5		0.133 x 1			0.07
36	Welding Brck. of MF ke MF	18.BM.SB2.SS15.Sb	0.5		0.133 x 1			0.07
37	Welding Brck. of MF ke MF	20.BM.SB2.SS15.Sb	0.5		0.133 x 1			0.07
38	Welding Brck. of MF ke MF	21.BM.SB2.SS15.Sb	0.5		0.133 x 1			0.07
39	Welding Brck. of MF ke MF	23.BM.SB2.SS15.Sb	0.5		0.133 x 1			0.07



	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO
			PANJANG	BERAT	WELDING	FITTING	LIFTING	
			(m)	(ton)	JO/unit	JO/unit	JO/unit	
	Welding Brck. of MF ke MF	24.BM.SB2.SS15.Sb	0.5		0.133 x l			0.07
41	Welding Brck. of WF ke WF	16.BW.SB2.SS15.Sb	0.5		0.133 x l			0.07
42	Welding Brck. of WF ke WF	19.BW.SB2.SS15.Sb	0.5		0.133 x l			0.07
43	Welding Brck. of WF ke WF	22.BW.SB2.SS15.Sb	0.5		0.133 x l			0.07
<b>JUMLAH</b>			73.14	0.79				8.15
<b>SUB BLOCK 3 (PORT SIDE)</b>								
<b>SUB BLOCK 4 (DP)</b>								
1	Lifting DP A-G	16-25.DP.SB4.SS15		2.42			0.537 x w	1.30
2	Fiting DP A ke DP B	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
3	Fiting DP B ke DP C	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
4	Fiting DP C ke DP D	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
5	Fiting DP D ke DP E	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
6	Fiting DP E ke DP F	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
7	Fiting DP F ke DP G	16-25.DP.SB4.SS15	5.7			0.067 x l		0.38
8	Welding DP A ke DP B	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
9	Welding DP B ke DP C	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
10	Welding DP C ke DP D	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
11	Welding DP D ke DP E	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
12	Welding DP E ke DP F	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
13	Welding DP F ke DP G	16-25.DP.SB4.SS15	11.4		0.133 x l			1.52
14	Lifting DL	16-25.LDB.SB4.SS15.		0.25			0.537 x w	0.13
15	Lifting DT Sb dan PS	13-24.DT.SB4.SS15.Sb dan PS		0.68			0.537 x w	0.36
16	Fiting DL "C"	16-25.LDB.SB4.SS15."C	5.50			0.067 x l		0.37
17	Fiting DL PS	16-25.LDB.SB4.SS15.PS	5.50			0.067 x l		0.37
18	Fiting DL SB	10-25.LDB.SB4.SS15.Sb	5.50			0.067 x l		0.37
19	Fiting DT Sb	13.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
20	Fiting DT Sb	14.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
21	Fiting DT Sb	15.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
22	Fiting DT Sb	17.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
23	Fiting DT Sb	18.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
24	Fiting DT Sb	20.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
25	Fiting DT Sb	21.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
26	Fiting DT Sb	23.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
27	Fiting DT Sb	24.DT.SB4.SS15.Sb	4.4			0.067 x l		0.29
28	Fiting DT PS	13.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
29	Fiting DT PS	14.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
30	Fiting DT PS	15.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
31	Fiting DT PS	17.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
32	Fiting DT PS	18.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
33	Fiting DT PS	20.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
34	Fiting DT PS	21.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
35	Fiting DT PS	23.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
36	Fiting DT PS	24.DT.SB4.SS15.PS	4.4			0.067 x l		0.29
37	Welding DL "C"	16-25.LDB.SB4.SS15."C	11.01		0.133 x l			1.46
38	Welding DL PS	16-25.LDB.SB4.SS15.PS	11.01		0.133 x l			1.46
39	Welding DL SB	10-25.LDB.SB4.SS15.Sb	11.01		0.133 x l			1.46
40	Welding DT Sb	13.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
41	Welding DT Sb	14.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
42	Welding DT Sb	15.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
43	Welding DT Sb	17.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
44	Welding DT Sb	18.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
45	Welding DT Sb	20.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
46	Welding DT Sb	21.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17
47	Welding DT Sb	23.DT.SB4.SS15.Sb	8.8		0.133 x l			1.17





NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	
Welding DT Sb	24.DT.SB4.SS15.Sb	8.8		0.133 x 1			1.17
49 Welding DT PS	13.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
50 Welding DT PS	14.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
51 Welding DT PS	15.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
52 Welding DT PS	17.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
53 Welding DT PS	18.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
54 Welding DT PS	20.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
55 Welding DT PS	21.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
56 Welding DT PS	23.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
57 Welding DT PS	24.DT.SB4.SS15.PS	8.8		0.133 x 1			1.17
<b>JUMLAH</b>		389.73	3.34				

**PERAKITAN BLOK 15**

NO	NAMA KEGIATAN	PEKERJAAN		FORMULA JO			JO
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	
	Lifting Sub-Blok 2 (Starboard)		0.79			0.537 x w	0.42
	Fiting Sub-Blok 2 ke Sub-Blok 1	2.40			0.067 x 1		0.16
	Welding SP ke Vert. Bulkhead	4.808		0.133 x 1			0.64
	<b>JUMLAH</b>	7.21	0.79				
	Lifting Sub-Blok 3 (Port Side)		0.79			0.537 x w	0.42
	Fiting Sub-Blok 3 ke Sub-Blok 1	2.40			0.067 x 1		0.16
	Welding SP ke Vert. Bulkhead	4.808		0.133 x 1			0.64
	<b>JUMLAH</b>	7.21	0.79				
	Lifting Sub-Blok 4 (Deck)		3.34			0.537 x w	1.80
	Fiting Sub-Blok 4 ke SB1, SB2, SB3	33			0.067 x 1		2.21
	Welding DP ke SP SB2 & SB3	24		0.133 x 1			3.19
	Welding Brck. of SB2 ke SB4	4.5		0.133 x 1			0.60
	Welding Brck. of SB3 ke SB4	4.5		0.133 x 1			0.60
	<b>JUMLAH</b>	66.00	3.34				

**SUB BLOCK 1**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting BP A, B, C, D	0.50					0.50	1
2			Fiting BP A ke B	0.40			0.40	1
3			Fiting BP C ke D	0.15	Welding BP A dan B	0.80	0.80	3
4			Fiting BP AB ke CD	0.16	Welding BP C dan D	0.31	0.31	3
5					Welding BP AB dan CD	0.32	0.32	2
6	Lifting SF ke BP	0.06					0.06	1
7			Fiting SF ke BP	1.91			1.91	1
8					Welding SF ke BP	3.79	3.79	2
9	Lifting Brck. of SF	0.03					0.03	1
10			Fiting Brck. of SF ke SF	0.44			0.44	1
11					Welding Brck. of SF ke SF	0.43	0.43	2



<b>TOTAL</b>	0.59	3.06	5.65	9	5
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<b>SUB BLOCK 2 (STARBOARD)</b>								
<b>NO</b>	<b>LIFTING</b>		<b>FITTING</b>		<b>WELDING</b>		<b>DURASI REAL</b>	<b>TENAGA KERJA</b>
	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>		
1	Lifting SP A dan B	0.31					0.31	1
2			Fiting SidePlate A ke plat B	0.38			0.38	1
3					Welding SP A dan B	0.76	0.76	2
4	Lifting MF & WF	0.05					0.05	1
5			Fiting MF ke SP	0.90			0.90	1
6			Fiting MF ke SP	0.45	Welding MF ke SP	0.89	0.89	3
7					Welding WF ke SP	0.89	0.89	2
8	Lifting Brck. of Main & WF	0.01					0.01	1
9			Fiting Brck. of MF ke MF	0.20			0.20	1
10			Fiting Brck. of WF ke WF	0.10	Welding Brck. of MF ke MF	0.20	0.20	3
11					Welding Brck. of WF ke WF	0.10	0.10	2
	<b>TOTAL</b>	<b>0.38</b>		<b>2.03</b>		<b>2.84</b>	<b>5</b>	<b>5</b>

<b>PERAKITAN SB 1+2</b>								
<b>NO</b>	<b>LIFTING</b>		<b>FITTING</b>		<b>WELDING</b>		<b>DURASI REAL</b>	<b>TENAGA KERJA</b>
	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>		
1	Lifting Sub-Blok 2 (Starboard)	0.42					0.42	1
2			Fiting Sub-Blok 2 ke Sub-Blok 1	0.16			0.16	1
3					Welding SP ke Vert. Bulkhead	0.32	0.32	2
	<b>TOTAL</b>	<b>0.42</b>		<b>0.16</b>		<b>0.32</b>	<b>1</b>	<b>5</b>

<b>SUB BLOCK 3 (PORT SIDE)</b>							
<b>NO</b>	<b>LIFTING</b>		<b>FITTING</b>		<b>WELDING</b>		<b>DURASI REAL</b>
	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>	<b>Kegiatan</b>	<b>Durasi</b>	
1	Lifting SP A dan B	0.31					0.31
2			Fiting SidePlate A ke plat B	0.38			0.38
3					Welding SP A dan B	0.76	0.76
4	Lifting MF & WF	0.05					0.05
5			Fiting MF ke SP	0.90			0.90
6			Fiting MF ke SP	0.45	Welding MF ke SP	0.89	0.89
7					Welding WF ke SP	0.89	0.89
8	Lifting Brck. of Main & WF	0.01					0.01
9			Fiting Brck. of MF ke MF	0.20			0.20



SUB BLOCK 3 (PORT SIDE)						
LIFTING		FITTING		WELDING		DURASI REAL
Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi	
		Fiting Brck. of WF ke WF	0.10	Welding Brck. of MF ke MF	0.20	0.20
11				Welding Brck. of WF ke WF	0.10	0.10
<b>TOTAL</b>	0.38		2.03		2.84	4.70

PERAKITAN GRAND SUB BLOK								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Sub-Blok 3 (Starboard)	0.42					0.42	1
2			Fiting Sub-Blok 3 ke Sub-Blok 1	0.16			0.16	1
3					Welding SP ke Vert. Bulkhead	0.32	0.32	2
<b>TOTAL</b>		0.42		0.16		0.32	0.91	5

SUB BLOCK 4 (DP)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting DP A-G	0.65					0.65	1
2			Fiting DP A ke DP B	0.19			0.19	1
3			Fiting DP B ke DP C	0.19	Welding DP A ke DP B	0.76	0.76	6
4			Fiting DP C ke DP D	0.19	Welding DP B ke DP C	0.76	0.76	6
5			Fiting DP D ke DP E	0.19	Welding DP C ke DP D	0.76	0.76	6
6			Fiting DP E ke DP F	0.19	Welding DP D ke DP E	0.76	0.76	6
7			Fiting DP F ke DP G	0.19	Welding DP E ke DP F	0.76	0.76	6
8					Welding DP F ke DP G	0.76	0.76	4
9	Lifting DL & DT	0.18					0.18	1
10			Fiting DL "C"	0.18			0.18	2
11			Fiting DL PS	0.18	Welding DL "C"	0.73	0.73	4
12			Fiting DL SB	0.18	Welding DL PS	0.73	0.73	4
13					Welding DL SB	0.73	0.73	4
14			Fiting DT Sb	1.33			1.33	2
15			Fiting DT PS	1.33	Welding DT Sb	5.27	5.27	4
16					Welding DT PS	5.27	5.27	2
<b>TOTAL</b>		0.83		4.35		17.28	19.81	6

PERAKITAN BLOK 15							
NO	LIFTING	FITTING	WELDING	DURASI REAL	TENAGA KERJA		

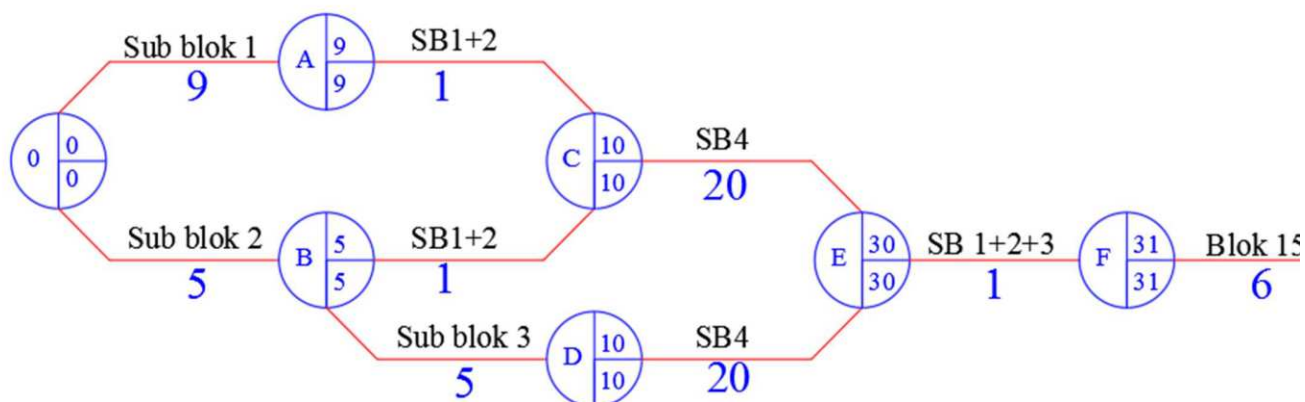


	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi	ASI REA L	AGA KER JA
1	Fiting Sub-Blok 4 (Deck)	1.79 6					1.80	2
2			Fiting Sub-Blok 4 ke SB1, SB2, SB3	2.21 1			2.21	2
3					Welding DP ke SP SB2 & SB3	1.59 6	1.60	2
4					Welding Brck. of SB2 & SB3 ke SB4	0.29 9	0.30	2
<b>TOTAL</b>		1.80		2.21		1.90	5.90	6

B. Hubungan ketergantungan blok 15

Urutan	Nama Kegiatan	Kegiatan Pendahulu	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan sub blok 1	-	9	5	0	9	0	9	Ya
B	Perakitan sub blok 2	-	5	5	0	5	0	5	Ya
C	Perakitan sub blok 1+2	A,B	1	5	9	10	9	10	Ya
D	Perakitan sub blok 3	B	5	5	5	10	5	10	Ya
E	Perakitan sub blok 4	C,D	20	7	10	30	10	30	Ya
F	Perakitan sub blok 1+2+3	E	1	5	30	31	30	31	Ya
G	Perakitan blok 15	F	6	5	31	37	31	37	Ya

C. Jaringan Kerja blok 15





# BLOK 16



### A. PERHITUNGAN DAN PERAKITAN BLOK 16

N O	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Pekerja	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MEN IT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL (1) SIDE											
1	Lifting SP A dan B	26-35.SP.SB1.SS16.Sb		0.608			0.537 x w	0.33	2	0.16	9.79
2	Fiting SP A ke B	26-35.SP.SB1.SS16.Sb	6			0.067 x l		0.40	2	0.20	12.06
3	Welding SP A dan B	26-35.SP.SB1.SS16.Sb	12		0.133 x l			1.60	2	0.80	47.88
4	Lifting MF	MF.SB1.SS16.Sb		0.085			0.537 x w	0.05	2	0.02	1.37
5	Lifting WF	28 & 31.WF.SB1.SS16.Sb		0.067			0.537 x w	0.04	2	0.02	1.08
6	Fiting MF ke SP	26.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
7	Fiting MF ke SP	27.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
8	Fiting MF ke SP	29.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
9	Fiting MF ke SP	30.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
10	Fiting MF ke SP	32.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
11	Fiting MF ke SP	33.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
12	Fiting MF ke SP	35.MF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
13	Fiting WF ke SP	28.WF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
14	Fiting WF ke SP	31.WF.SB1.SS16.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
15	Welding MF ke SP	26.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
16	Welding MF ke SP	27.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
17	Welding MF ke SP	29.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
18	Welding MF ke SP	30.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
19	Welding MF ke SP	32.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
20	Welding MF ke SP	33.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
21	Welding MF ke SP	35.MF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
22	Welding WF ke SP	28.WF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
23	Welding WF ke SP	31.WF.SB1.SS16.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
24	Lifting Brck. of Main Frame	BM.SB1.SS16.Sb		0.028			0.537 x w	0.02	2	0.01	0.45
25	Lifting Brck. of WF	28 & 31.BW.SB1.SS16.Sb		0.011				0.01	2	0.00	0.17
26	Fiting Brck. of MF ke MF	26.BM.SB1.SS16.Sb	0.5			0.067 x l		0.03	2	0.02	1.01



N O	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	Pekerja	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	JAM			MEN IT	
27	Fiting Brck. of MF ke MF	27.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
28	Fiting Brck. of MF ke MF	29.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
29	Fiting Brck. of MF ke MF	30.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
30	Fiting Brck. of MF ke MF	32.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
31	Fiting Brck. of MF ke MF	33.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
32	Fiting Brck. of MF ke MF	35.BM.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
33	Fiting Brck. of WF ke WF	28.BW.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
34	Fiting Brck. of WF ke WF	31.BW.SB1.SS16.Sb	0.5			0.067 x l			0.03	2	0.02	1.01
35	Welding Brck. of MF ke MF	26.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
36	Welding Brck. of MF ke MF	27.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
37	Welding Brck. of MF ke MF	29.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
38	Welding Brck. of MF ke MF	30.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
39	Welding Brck. of MF ke MF	32.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
40	Welding Brck. of MF ke MF	33.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
41	Welding Brck. of MF ke MF	35.BM.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
42	Welding Brck. of WF ke WF	28.BW.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
43	Welding Brck. of WF ke WF	31.BW.SB1.SS16.Sb	0.5		0.133 x l				0.07	2	0.03	2.00
<b>JUMLAH</b>			87.48	0.80							5.02	301.2 0
PANEL (5) VERT.BULKHEAD Fr. 34												
1	Lifting BP A dan B	34.BP.SB1.SS16.Sb		0.214		0.537 x w			0.12	2	0.06	3.46
2	Fiting BP A dan B	34.BP.SB1.SS16.Sb	2.12			0.067 x l			0.14	2	0.07	4.26
3	Welding BP A dan B	34.BP.SB1.SS16.Sb	2.12		0.133 x l				0.28	2	0.14	8.45
4	Lifting SF dan Brck. of SF	34.ST.SB1.SS16.Sb		0.031		0.537 x w			0.115	2	0.06	3.46
5	Lifting SF dan Brck. of SF	34.BS.SB1.SS16.Sb				0.537 x w						
6	Fiting SF ke BP	34.ST.SB1.SS16.Sb	2.19			0.067 x l			0.15	2	0.07	4.41
7	Fiting SF ke BP	34.ST.SB1.SS16.Sb	2.19			0.067 x l			0.15	2	0.07	4.41
8	Fiting SF ke BP	34.ST.SB1.SS16.Sb	2.19			0.067 x l			0.15	2	0.07	4.41
9	Welding SF ke BP	34.ST.SB1.SS16.Sb	4.39		0.133 x l				0.58	2	0.29	17.50
10	Welding SF ke BP	34.ST.SB1.SS16.Sb	4.39		0.133 x l				0.58	2	0.29	17.50



N O	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	Pekerja	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MEN IT
11	Welding SF ke BP	34.ST.SB1.SS16.Sb	4.39		0.133 x 1			0.58	2	0.29	17.50
12	Fiting Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19			0.067 x 1		0.15	2	0.07	4.41
13	Fiting Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19			0.067 x 1		0.15	2	0.07	4.41
14	Fiting Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19			0.067 x 1		0.15	2	0.07	4.41
15	Welding Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19		0.133 x 1			0.29	2	0.15	8.75
16	Welding Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19		0.133 x 1			0.29	2	0.15	8.75
17	Welding Brck. of SF ke SF	34.BS.SB1.SS16.Sb	2.19		0.133 x 1			0.29	2	0.15	8.75
<b>JUMLAH</b>			37.13	0.25						2.08	124.8
<b>PANEL (3) LONGI.BULKHEAD</b>											
1	Lifting BP A dan B	34-35.BP.SB1.SS16.Sb		0.114			0.537 x w	0.06	2	0.03	1.83
2	Fiting Bulkhead A ke B	34-35.BP.SB1.SS16.Sb	1.05			0.067 x 1		0.07	2	0.04	2.11
3	Welding BP A dan B	34-35.BP.SB1.SS16.Sb	2.1		0.133 x 1			0.28	2	0.14	8.38
4	Lifting SF dan Brck. of SF	34-35.ST.SB1.SS16.Sb		0.010			0.537 x w	0.005	2	0.00	0.16
5		34-35.BS.SB1.SS16.Sb						5		27	
6	Fiting SF	34-35.ST.SB1.SS16.Sb	2.19			0.067 x 1		0.15	2	0.07	4.41
7	Welding SF	34-35.ST.SB1.SS16.Sb	4.39		0.133 x 1			0.58	2	0.29	17.50
8	Fiting Brck. of SF	34-35.BS.SB1.SS16.Sb	0.5			0.067 x 1		0.03	2	0.02	1.01
9	Welding Brck. of SF	34-35.BS.SB1.SS16.Sb	0.5		0.133 x 1			0.07	2	0.03	2.00
<b>JUMLAH</b>			10.73	0.12						0.62	37.39
<b>TOTAL</b>				1.1672							
<b>SUB BLOCK 2 (PORT SIDE)</b>											
<b>SUB BLOCK 3 (DECK)</b>											
<b>PANEL (7) DECK</b>											
1	Lifting DP A-G	26-35.DP.SB3.SS16		2.55			0.537 x w	1.37	2	0.68	41.02
2	Fiting DP A ke DP B	26-35.DP.SB3.SS16	6			0.067 x 1		0.40	2	0.20	12.06
3	Fiting DP B ke DP C	26-35.DP.SB3.SS16	6			0.067 x 1		0.40	2	0.20	12.06
4	Fiting DP C ke DP D	26-35.DP.SB3.SS16	6			0.067 x 1		0.40	2	0.20	12.06
5	Fiting DP D ke DP E	26-35.DP.SB3.SS16	6			0.067 x 1		0.40	2	0.20	12.06
6	Fiting DP E ke DP F	26-35.DP.SB3.SS16	6			0.067 x 1		0.40	2	0.20	12.06





N O	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	Pekerja	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	JAM			MEN IT	
7	Fiting DP F ke DP G	26-35.DP.SB3.SS16	6			0.067 x l		0.40	2	0.20	12.06	
8	Welding DP A ke DP B	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
9	Welding DP B ke DP C	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
10	Welding DP C ke DP D	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
11	Welding DP D ke DP E	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
12	Welding DP E ke DP F	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
13	Welding DP F ke DP G	26-35.DP.SB3.SS16	12		0.133 x l		1.60	2	0.80	47.88		
14	Lifting DL	26-35.DL.SB3.SS16."C,PS,SB		0.25			0.537 x w	0.13	2	0.07	3.98	
15	Lifting DT Sb dan PS	26-34.DT.SB3.SS16.Sb&PS		0.66				0.36	2	0.18	10.66	
16	Fiting DL "C" ke DP	26-35.DL.SB3.SS16."C	6			0.067 x l		0.40	2	0.20	12.06	
17	Fiting DL PS ke DP	26-34.DL.SB3.SS16.PS	5.29			0.067 x l		0.35	2	0.18	10.62	
18	Fiting DL SB ke DP	26-34.DL.SB3.SS16.Sb	5.29			0.067 x l		0.35	2	0.18	10.62	
19	Fiting DT Sb ke DP	26.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
20	Fiting DT Sb ke DP	27.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
21	Fiting DT Sb ke DP	28.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
22	Fiting DT Sb ke DP	29.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
23	Fiting DT Sb ke DP	30.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
24	Fiting DT Sb ke DP	31.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
25	Fiting DT Sb ke DP	32.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
26	Fiting DT Sb ke DP	33.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
27	Fiting DT Sb ke DP	34.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
28	Fiting DT Sb ke DP	35.DT.SB3.SS16.Sb	4.4			0.067 x l		0.29	2	0.15	8.84	
29	Fiting DT PS ke DP	26.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
30	Fiting DT PS ke DP	27.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
31	Fiting DT PS ke DP	28.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
32	Fiting DT PS ke DP	29.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
33	Fiting DT PS ke DP	30.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
34	Fiting DT PS ke DP	31.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	
35	Fiting DT PS ke DP	32.DT.SB3.SS16.PS	4.4			0.067 x l		0.29	2	0.15	8.84	



N O	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	Pekerja	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit	JAM			MEN IT	
36	Fiting DT PS ke DP	33.DT.SB3.SS16.PS	4.4			0.067 x 1			0.29	2	0.15	8.84
37	Fiting DT PS ke DP	34.DT.SB3.SS16.PS	4.4			0.067 x 1			0.29	2	0.15	8.84
38	Fiting DT PS ke DP	35.DT.SB3.SS16.PS	4.4			0.067 x 1			0.29	2	0.15	8.84
39	Welding DL "C"	26-35.DL.SB3.SS16."C	12			0.133 x 1			1.60	2	0.80	47.88
40	Welding DL PS	26-34.DL.SB3.SS16.PS	10.57			0.133 x 1			1.41	2	0.70	42.18
41	Welding DL SB	26-34.DL.SB3.SS16.Sb	10.57			0.133 x 1			1.41	2	0.70	42.18
42	Welding DT Sb ke DP	26.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
43	Welding DT Sb ke DP	27.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
44	Welding DT Sb ke DP	28.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
45	Welding DT Sb ke DP	29.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
46	Welding DT Sb ke DP	30.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
47	Welding DT Sb ke DP	31.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
48	Welding DT Sb ke DP	32.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
49	Welding DT Sb ke DP	33.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
50	Welding DT Sb ke DP	34.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
51	Welding DT Sb ke DP	35.DT.SB3.SS16.Sb	8.8			0.133 x 1			1.17	2	0.59	35.11
52	Welding DT PS ke DP	26.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
53	Welding DT PS ke DP	27.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
54	Welding DT PS ke DP	28.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
55	Welding DT PS ke DP	29.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
56	Welding DT PS ke DP	30.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
57	Welding DT PS ke DP	31.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
58	Welding DT PS ke DP	32.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
59	Welding DT PS ke DP	33.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
60	Welding DT PS ke DP	34.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11
61	Welding DT PS ke DP	35.DT.SB3.SS16.PS	8.8			0.133 x 1			1.17	2	0.59	35.11



PERAKITAN GRAND PANEL 2+6								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Panel 6 Vert. Bulkhead	0.07					0.07	2
2			Fiting Panel 6 ke Panel 2	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
	<b>TOTAL</b>	<b>0.07</b>		<b>0.07</b>		<b>0.28</b>	<b>0.4</b>	<b>6</b>

SUB BLOCK 2, PANEL 4								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting BP A dan B	0.03					0.03	2
2			Fiting BP A dan B	0.04			0.04	2
3					Welding BP A dan B	0.14	0.14	2
4	Lifting SF dan Brck. of SF	0.00					0.00	2
5			Fiting SF ke BP	0.07			0.07	2
6					Welding SF ke BP	0.29	0.29	2
7			Fiting Brck. of SF ke SF	0.02			0.02	2
8					Welding Brck. of SF ke SF	0.03	0.03	2
	<b>TOTAL</b>	<b>0.03</b>		<b>0.13</b>		<b>0.46</b>	<b>0.6</b>	<b>6</b>

PERAKITAN SUB-BLOCK 2 (PORT SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Panel 4 Longi. Bulkhead	0.03					0.03	2
2			Fiting Panel 4 ke Panel 2	0.07			0.07	2



PERAKITAN SUB-BLOCK 2 (PORT SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
3					Welding Vert. Bulkh ke Longi. Bulkhead	0.28	0.28	2
	<b>TOTAL</b>	0.03		0.07		0.28	0.4	6

SUB BLOCK 1, PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting BP A dan B	0.03					0.03	2
2			Fiting BP A dan B	0.04			0.04	2
3					Welding BP A dan B	0.14	0.14	2
4	Lifting SF dan Brck. of SF	0.003					0.00	2
5			Fiting SF ke BP	0.07			0.07	2
6					Welding SF ke BP	0.29	0.29	2
7			Fiting Brck. of SF ke SF	0.02			0.02	2
8					Welding Brck. of SF ke SF	0.03	0.03	2
	<b>TOTAL</b>	0.03		0.13		0.46	0.62	6

PERAKITAN GRAND PANEL 1+5								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Panel 5 Vert. Bulkhead	0.07					0.07	2
2			Fiting Panel 5 ke Panel 1	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
	<b>TOTAL</b>	0.07		0.07		0.28	0.4	6



PERAKITAN SUB-BLOCK 1 (STARBOARD)									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi			
	Lifting Panel 3 Longi.								
1	Bulkhead	0.03					0.03	2	
2			Fiting Panel 3 ke Panel 1	0.07			0.07	2	
3					Welding Vert. Bulkh ke Longi. Bulkhead	0.28	0.28	2	
	<b>TOTAL</b>	<b>0.03</b>		<b>0.07</b>		<b>0.28</b>	<b>0.4</b>	<b>6</b>	

SUB BLOCK 3 (DECK)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting DP A-G	0.68					0.68	2
2			Fiting DP A ke DP B	0.20			0.20	2
3			Fiting DP B ke DP C	0.20	Welding DP A ke DP B	0.80	0.80	4
4			Fiting DP C ke DP D	0.20	Welding DP B ke DP C	0.80	0.80	4
5			Fiting DP D ke DP E	0.20	Welding DP C ke DP D	0.80	0.80	4
6			Fiting DP E ke DP F	0.20	Welding DP D ke DP E	0.80	0.80	4
7			Fiting DP F ke DP G	0.20	Welding DP E ke DP F	0.80	0.80	4
8					Welding DP F ke DP G	0.80	0.80	2
9	Lifting DL	0.07					0.07	2
10	Lifting DT Sb dan PS	0.18	Fiting DL "C" ke DP	0.20			0.20	4
11			Fiting DL PS ke DP	0.18	Welding DL "C" ke DP	0.80	0.80	4
12			Fiting DL SB ke DP	0.18	Welding DL PS ke DP	0.70	0.70	4
13			Fiting DT Sb ke DP	1.47	Welding DL SB ke DP	0.70	1.47	4
14			Fiting DT PS ke DP	1.47	Welding DT Sb ke DP	5.85	5.85	4
15					Welding DT PS ke DP	5.85	5.85	2



SUB BLOCK 3 (DECK)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
	<b>TOTAL</b>	0.93		4.71		18.70	20.62	6

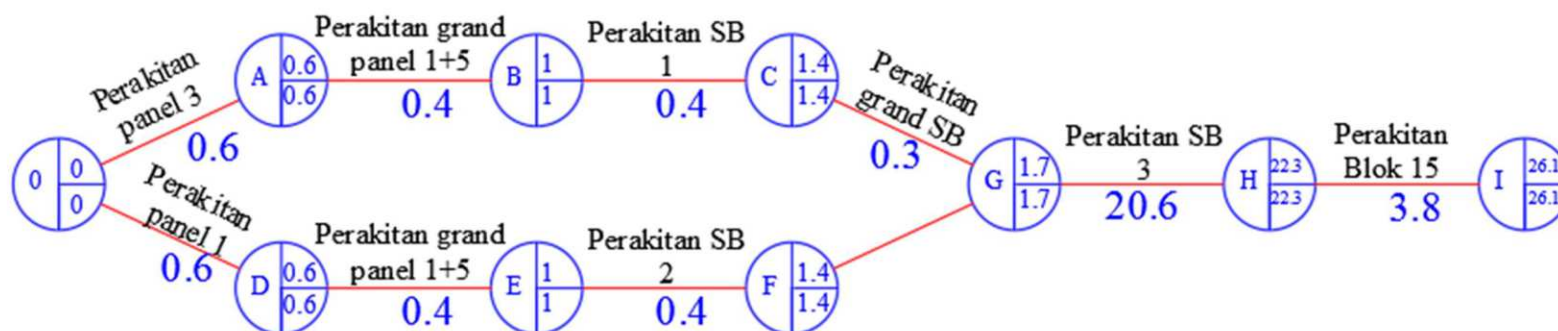
PERAKITAN GRAND SUB BLOK								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Sub Block 2	0.31					0.31	2

PERAKITAN BLOK 16								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	Kegiatan	Durasi	Kegiatan	Durasi	Kegiatan	Durasi		
1	Lifting Sub Block 3 (Deck)	0.93					0.93	2
2			Fiting SB 3 ke SB 1 dan SB 2	0.69			0.69	2
3					Welding Panel Deck ke Side Deck SB 1	0.80	0.80	2
4					Welding Panel Deck ke Side Deck SB 2	0.80	0.80	2
5					Welding Brck. of Sb 1 dan 2 ke Panel Deck	0.57	0.57	2
	<b>TOTAL</b>	0.93		0.69		2.16	3.78	6

### B. HUBUNGAN KETERGANTUNGAN BLOK 16

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan panel 3	-	0.6	6	0.0	0.6	0	0.6	Ya
B	Perakitan grand panel 1+5	A	0.4	6	0.6	1.0	1	1.0	Ya
C	Perakitan sub blok 1	B	0.4	6	1.0	1.4	1	1.4	Ya
D	Perakitan panel 4	-	0.6	6	0.0	0.6	0	0.9	Ya
E	Perakitan grand panel 2+6	D	0.4	6	0.6	1.0	1	1.3	Ya
F	Perakitan sub blok 2	E	0.4	6	1.0	1.4	1	1.7	Ya
G	Perakitan grand sub blok	C, F	0.3	6	1.4	1.7	1	1.7	Ya
H	Perakitan sun blok 3	G	20.6	6	1.7	22.3	2	22.3	Ya
I	Perakitan blok 16	I	3.8	6	22.3	26.1	22	26.1	Ya

### C. JARINGAN KERJA BLOK 16





# BLOK 17





## RHITUNGAN DAN PERAKITAN BLOK 17

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL (1) SIDE											
1	Lifting SP A dan B	36-43.SP.SB1.SS17.Sb		0.58			0.537 x w	0.31	2	0.15	9.30
2	Fiting SP A dan B	36-43.SP.SB1.SS17.Sb	5.7			0.067 x l		0.38	2	0.19	11.46
3	Welding SP A dan B	36-43.SP.SB1.SS17.Sb	11.4		0.133 x l			1.52	2	0.76	45.49
4	Lifting MF 36,39,40,42	MF.SB1.SS17.Sb		0.05			0.537 x w	0.03	2	0.01	0.78
5	Lifting WF 37,43	37,43.WF.SB1.SS17.Sb		0.07			0.537 x w	0.04	2	0.02	1.08
6	Fiting MF ke SP	36.MF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
7	Fiting MF ke SP	39.MF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
8	Fiting MF ke SP	40.MF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
9	Fiting MF ke SP	42.MF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
10	Fiting WF ke SP	37.WF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
11	Fiting WF ke SP	43.WF.SB1.SS17.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
12	Welding MF ke SP	36.MF.SB1.SS17.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
13	Welding MF ke SP	39.MF.SB1.SS17.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
14	Welding MF ke SP	40.MF.SB1.SS17.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
15	Welding MF ke SP	42.MF.SB1.SS17.Sb	2.24		0.133 x l			0.30	2	0.15	8.94
16	Welding WF ke SP	37.WF.SB1.SS17.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
17	Welding WF ke SP	43.WF.SB1.SS17.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
18	Lifting Brck. of MF 36,39,40,42	BM.SB1.SS17.Sb		0.027			0.537 x w	0.014	2	0.00	0.43
19	Lifting Brck. of WF 37,43	37,43.BW.SB1.SS17.Sb					0.537 x w			7	
20	Fiting Brck. of MF ke MF	36.BM.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
21	Fiting Brck. of MF ke MF	39.BM.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
22	Fiting Brck. of MF ke MF	40.BM.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
23	Fiting Brck. of MF ke MF	42.BM.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
24	Fiting Brck. of WF ke WF	37.BW.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
25	Fiting Brck. of WF ke WF	43.BW.SB1.SS17.Sb	0.5			0.067 x l		0.03	2	0.02	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
26	Welding Brck. of MF ke MF	36.BM.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
27	Welding Brck. of MF ke MF	39.BM.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
28	Welding Brck. of MF ke MF	40.BM.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
29	Welding Brck. of MF ke MF	42.BM.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
30	Welding Brck. of WF ke WF	37.BW.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
31	Welding Brck. of WF ke WF	43.BW.SB1.SS17.Sb	0.5		0.133 x l		0.07	2	0.03	2.00
<b>JUMLAH</b>			54.46	0.72					3.08	185.05
<b>PANEL (2) LONGI. BULKHEAD</b>										
1	Lifting BP A dan B	36-43.BP.SB1.SS17.Sb		0.55		0.537 x w	0.30	2	0.15	8.90
2	Fiting BP A dan B	36-43.BP.SB1.SS17.Sb	5.1			0.067 x l	0.34	2	0.17	10.25
3	Welding BP A dan B	36-43.BP.SB1.SS17.Sb	10.2		0.133 x l		1.36	2	0.68	40.70
4	Lifting SF	.ST.SB1.SS17.Sb		0.09		0.537 x w	0.05	2	0.02	1.45
5	Fiting SF ke Bulkhaed Plate	36.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
6	Fiting SF ke Bulkhaed Plate	37.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
7	Fiting SF ke Bulkhaed Plate	39.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
8	Fiting SF ke Bulkhaed Plate	40.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
9	Fiting SF ke Bulkhaed Plate	42.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
10	Fiting SF ke Bulkhaed Plate	43.ST.SB1.SS17.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
11	Welding SF ke BP	36.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
12	Welding SF ke BP	37.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
13	Welding SF ke BP	39.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
14	Welding SF ke BP	40.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
15	Welding SF ke BP	42.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
16	Welding SF ke BP	43.ST.SB1.SS17.Sb	4.39		0.133 x l		0.58	2	0.29	17.50
17	Lifting Brck. of SF	.BS.SB1.SS17.Sb		0.03		0.537 x w	0.01	2	0.01	0.43
18	Fiting Brck. of SF ke SF	36.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
19	Fiting Brck. of SF ke SF	37.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
20	Fiting Brck. of SF ke SF	39.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
21	Fiting Brck. of SF ke SF	40.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT	
22	Fiting Brck. of SF ke SF	42.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01	
23	Fiting Brck. of SF ke SF	43.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01	
24	Welding Brck. of SF ke SF	36.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
25	Welding Brck. of SF ke SF	37.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
26	Welding Brck. of SF ke SF	39.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
27	Welding Brck. of SF ke SF	40.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
28	Welding Brck. of SF ke SF	42.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
29	Welding Brck. of SF ke SF	43.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	
<b>JUMLAH</b>			60.77	0.67					3.52	211.18	
PANEL (5) VERT. BULKHEAD FR 38 'SB'											
1	Lifting BP A dan B	38.BP.SB1.SS17.Sb		0.21			0.537 x w	0.11	2	0.06	3.42
2	Fiting BP A dan B	38.BP.SB1.SS17.Sb	2.095			0.067 x l	0.14	2	0.07	4.21	
3	Welding BP A dan B	38.BP.SB1.SS17.Sb	2.095			0.133 x l	0.28	2	0.14	8.36	
4	Lifting SF 38 A,B,C	38A-C.ST.SB1.SS17.Sb		0.02			0.537 x w	0.01	2	0.00	0.2995
5	Fiting SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.067 x l	0.15	2	0.07	4.41	
6	Fiting SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.067 x l	0.15	2	0.07	4.41	
7	Fiting SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.067 x l	0.15	2	0.07	4.41	
8	Welding SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.133 x l	0.29	2	0.15	8.75	
9	Welding SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.133 x l	0.29	2	0.15	8.75	
10	Welding SF 38 ke BP	38A-C.ST.SB1.SS17.Sb	2.193			0.133 x l	0.29	2	0.15	8.75	
11	Lifting Brck. of SF 38 A,B,C	38A-C.BS.SB1.SS17.Sb		0.01			0.537 x w	0.01	2	0.00	0.19
12	Fiting Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01	
13	Fiting Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01	
14	Fiting Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5			0.067 x l	0.03	2	0.02	1.01	
15	Welding Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5			0.133 x l	0.07	2	0.03	2.00	



	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
	SF 38 ke SF										
16	Welding Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
17	Welding Brck. of SF 38 ke SF	38A-C.BS.SB1.SS17.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
	<b>JUMLAH</b>		20.35	0.24						1.08	64.96
<b>PANEL (7) VERT. BULKHEAD FR 41 'SB'</b>											
1	Lifting BP	41.BP.SB1.SS17.Sb		0.16			0.537 x w	0.09	2	0.04	2.60
2	Lifting SF 41 A,B,C	41A-C.ST.SB1.SS17.Sb		0.01			0.537 x w	0.01	2	0.00	0.19
3	Fiting SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	2.19		0.067 x l			0.15	2	0.07	4.41
4	Fiting SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	2.19		0.067 x l			0.15	2	0.07	4.41
5	Fiting SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	2.19		0.067 x l			0.15	2	0.07	4.41
6	Welding SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
7	Welding SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
8	Welding SF 41 ke BP	41A-C.ST.SB1.SS17.Sb	4.39		0.133 x l			0.58	2	0.29	17.50
9	Lifting Brck. of SF 41 A,B,C	41A-C.BS.SB1.SS17.Sb		0.02			0.537 x w	0.01	2	0.00	0.30
10	Fiting Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.067 x l			0.03	2	0.02	1.01
11	Fiting Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.067 x l			0.03	2	0.02	1.01
12	Fiting Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.067 x l			0.03	2	0.02	1.01
13	Welding Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
14	Welding Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
15	Welding Brck. of SF 41 ke SF	41A-C.BS.SB1.SS17.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
	<b>JUMLAH</b>		22.74	0.19						1.30	77.81
	<b>TOTAL</b>			1.8233							
<b>SUB BLOCK 2 (PORT SIDE)</b>											
<b>SUB BLOCK 4 (DECK)</b>											
<b>PANEL (10) DECK</b>											
1	Lifting DP A-G	36-43.DP.Sb4.SS17		2.16			0.537 x w	1.16	2	0.58	34.87
2	Fiting DP A ke B	36-43.DP.Sb4.SS17	5.1		0.067 x l			0.34	2	0.17	10.25



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING	JAM			MENIT	
		(m)	(ton)	JO/unit	JO/unit	JO/unit					
3	Fiting DP B ke C	36-43.DP.Sb4.SS17	5.1		0.067 x l		0.34	2	0.17	10.25	
4	Fiting DP C ke D	36-43.DP.Sb4.SS17	5.1		0.067 x l		0.34	2	0.17	10.25	
5	Fiting DP D ke E	36-43.DP.Sb4.SS17	5.1		0.067 x l		0.34	2	0.17	10.25	
6	Fiting DP E ke F	36-43.DP.Sb4.SS17	5.1		0.067 x l		0.34	2	0.17	10.25	
7	Fiting DP F ke G	36-43.DP.Sb4.SS17	5.1		0.067 x l		0.34	2	0.17	10.25	
8	Welding DP A ke B	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
9	Welding DP B ke C	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
10	Welding DP C ke D	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
11	Welding DP D ke E	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
12	Welding DP E ke F	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
13	Welding DP F ke G	36-43.DP.Sb4.SS17	10.2		0.133 x l		1.36	2	0.68	40.70	
14	Lifting DL	36-43.DL.SB4.SS17		0.09		0.537 x w	0.05	2	0.02	1.44	
15	Lifting DT Sb dan PS	36-43DT.SB3.SS16.Sb&PS		0.48			0.26	2	0.13	7.68	
16	Fiting DL ke DP	36-43.DL.SB4.SS17	6.00		0.067 x l		0.40	2	0.20	12.06	
17	Fiting DT ke DP	36.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
18	Fiting DT ke DP	37.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
19	Fiting DT ke DP	38.DT.SB4.SS16.Sb	2.2		0.067 x l		0.15	2	0.07	4.42	
20	Fiting DT ke DP	39.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
21	Fiting DT ke DP	40.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
22	Fiting DT ke DP	42.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
23	Fiting DT ke DP	43.DT.SB4.SS16.Sb	4.4		0.067 x l		0.29	2	0.15	8.84	
24	Fiting DT ke DP	36.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
25	Fiting DT ke DP	37.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
26	Fiting DT ke DP	38.DT.SB4.SS16.PS	2.2		0.067 x l		0.15	2	0.07	4.42	
27	Fiting DT ke DP	39.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
28	Fiting DT ke DP	40.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
29	Fiting DT ke DP	42.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
30	Fiting DT ke DP	43.DT.SB4.SS16.PS	4.4		0.067 x l		0.29	2	0.15	8.84	
31	Welding DL ke DP	36-43.DL.SB4.SS17	12		0.133 x l		1.60	2	0.80	47.88	



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
32	Welding DT ke DP	36.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
33	Welding DT ke DP	37.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
34	Welding DT ke DP	38.DT.SB4.SS16.Sb	4.4		0.133 x l		0.59	2	0.29	17.56
35	Welding DT ke DP	39.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
36	Welding DT ke DP	40.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
37	Welding DT ke DP	42.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
38	Welding DT ke DP	43.DT.SB4.SS16.Sb	8.8		0.133 x l		1.17	2	0.59	35.11
39	Welding DT ke DP	36.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
40	Welding DT ke DP	37.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
41	Welding DT ke DP	38.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
42	Welding DT ke DP	39.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
43	Welding DT ke DP	40.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
44	Welding DT ke DP	42.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
45	Welding DT ke DP	43.DT.SB4.SS16.PS	8.8		0.133 x l		1.17	2	0.59	35.11
<b>JUMLAH</b>			285.80	2.73					16.64	998.61

**SUB BLOCK 1, PANEL 7**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP	0.04					0.04	2
2	Lifting SF & Bracket 41 A,B,C	0.00					0.00	2
3			Fiting SF 41 ke BP	0.22			0.22	2
4					Welding SF 41 ke BP	0.88	0.88	2
5			Fiting Brck. of SF 41 ke SF	0.05			0.05	2
6					Welding Brck. of SF 41 ke SF	0.10	0.10	2
<b>TOTAL</b>		<b>0.05</b>		<b>0.27</b>		<b>0.97</b>	<b>1.29</b>	<b>6</b>



**PERAKITAN PANEL 1+5**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 5 (Vert. Bulkhead Fr. 38)	0.07					0.07	2
2			Fiting Panel 5 ke Panel 1 (SP)	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
<b>TOTAL</b>		<b>0.07</b>		<b>0.07</b>		<b>0.28</b>	<b>0.41</b>	<b>6</b>

**PERAKITAN PANEL 1+5+7**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 7 (Vert. Bulkhead Fr. 41)	0.05					0.05	2
2			Fiting Panel 7 ke Panel 1 (SP)	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
<b>TOTAL</b>		<b>0.05</b>		<b>0.07</b>		<b>0.28</b>	<b>0.40</b>	<b>6</b>

**SUB BLOCK 1, PANEL 2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.15					0.15	2
2			Fiting BP A dan B	0.17			0.17	2
3					Welding BP A dan B	0.68	0.68	2
4	Lifting SF dan Brck. of SF	0.02					0.02	2
5			Fiting SF ke BP	0.44			0.44	2
6					Welding SF ke BP	1.75	1.75	2
7			Fiting Brck. of SF ke SF	0.10			0.10	2
8					Welding Brck. of SF ke SF	0.20	0.20	2
<b>TOTAL</b>		<b>0.17</b>		<b>0.71</b>		<b>2.63</b>	<b>3.51</b>	<b>16</b>



**PERAKITAN SUB-BLOCK 1 (STARBOARD)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 (Longi. Bulkhead)	0.18					0.18	2
2			Fiting Panel 2 ke Panel 5&7	0.14			0.14	2
3					Welding Longi. Bulkhead ke Vert. Bulkhead	0.56	0.56	2
	<b>TOTAL</b>	<b>0.18</b>		<b>0.14</b>		<b>0.56</b>	<b>0.88</b>	<b>6</b>

**SUB BLOCK 2, PANEL 9**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP	0.04					0.04	2
2	Lifting SF & Bracket 41 A,B,C	0.00					0.00	2
3			Fiting SF 41 ke BP	0.22			0.22	2
4					Welding SF 41 ke BP	0.88	0.88	2
5			Fiting Brck. of SF 41 ke SF	0.05			0.05	2
6					Welding Brck. of SF 41 ke SF	0.10	0.10	2
	<b>TOTAL</b>	<b>0.05</b>		<b>0.27</b>		<b>0.97</b>	<b>1.29</b>	<b>6</b>

**PERAKITAN PANEL 4+6**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 6 (Vert. Bulkhead Fr. 38)	0.05					0.05	2
2			Fiting Panel 6 ke Panel 4 (SP)	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
	<b>TOTAL</b>	<b>0.05</b>		<b>0.07</b>		<b>0.28</b>	<b>0.40</b>	<b>6</b>





PERAKITAN PANEL 4+6+9								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 9 (Vert. Bulkhead Fr. 44)	0.05					0.05	2
2			Fiting Panel 9 ke Panel 4 (SP)	0.07			0.07	2
3					Welding BP ke SP	0.28	0.28	2
<b>TOTAL</b>		<b>0.05</b>		<b>0.07</b>		<b>0.28</b>	<b>0.40</b>	<b>6</b>

SUB BLOCK 2, PANEL 3								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.15					0.15	2
2			Fiting BP A dan B	0.17			0.17	2
3					Welding BP A dan B	0.68	0.68	2
4	Lifting SF dan Brck. of SF	0.02					0.02	2
5			Fiting SF ke BP	0.44			0.44	2
6					Welding SF ke BP	1.75	1.75	2
7			Fiting Brck. of SF ke SF	0.10			0.10	2
8					Welding Brck. of SF ke SF	0.20	0.20	2
<b>TOTAL</b>		<b>0.17</b>		<b>0.71</b>		<b>2.63</b>	<b>3.51</b>	<b>10</b>

PERAKITAN SUB-BLOCK 2 (PORT SIDE)								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 3 (Longi. Bulkhead)	0.18					0.18	2
2			Fiting Panel 2 ke Panel 6&9	0.14			0.14	2
3					Welding Longi. Bulkhead ke Vert. Bulkhead	0.56	0.56	2



<b>TOTAL</b>	<b>0.73</b>	<b>1.85</b>	<b>6.93</b>	<b>9.50</b>	<b>6</b>
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**PERAKITAN SB1+SB2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Blok 2 (Port Side)	0.49					0.49	4

**SUB BLOCK 3, PANEL 8**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.18					0.18	2
2	Lifting SF & Bracket 41 A-G	0.02					0.02	2
3			Fiting SF ke Bulhead Plate	0.51			0.51	2
4					Welding SF ke Bulhead Plate	2.04	2.04	2
5			Fiting Brck. of SF ke SF	0.12			0.12	2
6					Welding Brck. of SF ke SF	0.23	0.23	2
<b>TOTAL</b>		<b>0.20</b>		<b>0.63</b>		<b>2.27</b>	<b>3.11</b>	<b>6</b>

**SUB BLOCK 4, PANEL 10**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	0.58					0.58	2
2			Fiting DP A ke B	0.17			0.17	2
3			Fiting DP B ke C	0.17	Welding DP A ke B	0.68	0.68	4
4			Fiting DP C ke D	0.17	Welding DP B ke C	0.68	0.68	4
5			Fiting DP D ke E	0.17	Welding DP C ke D	0.68	0.68	4
6			Fiting DP E ke F	0.17	Welding DP D ke E	0.68	0.68	4
7			Fiting DP F ke G	0.17	Welding DP E ke F	0.68	0.68	4
8					Welding DP F ke G	0.68	0.68	4
9	Lifting DL	0.02					0.02	2



			Fiting DL ke DP	0.20		0.20	2
					Welding DL ke DP	0.80	2
12	Lifting DT Sb dan PS	0.13				0.13	2
13			Fiting DT ke DP	1.92		1.92	2
14					Welding DT ke DP	7.90	2
<b>TOTAL</b>		<b>0.73</b>		<b>3.14</b>		<b>12.77</b>	<b>6</b>

**PERAKITAN SB1+SB2+SB3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Blok 3 (Vert. Bulkhead)	0.21					0.21	2
2			Fiting SB3 ke SB1	0.08			0.08	2
3					Welding Vert. Bulkhead ke Longi. Bulkhead	0.32	0.32	2
<b>TOTAL</b>		<b>0.21</b>		<b>0.08</b>		<b>0.32</b>	<b>0.61</b>	<b>6</b>

**PERAKITAN BLOK 17**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Blok 4 (DP)	0.73					0.73	2
2			Fiting SB4 ke SB1, SB2, SB3	0.53			0.53	2
3					Welding DP ke SP	0.68	0.68	2
4					Welding Brck. of SB1 ke DP	0.30	0.30	2
5					Welding Brck. of SB2 ke DP	0.30	0.30	2
6					Welding Brck. of SB3 ke DP	0.12	0.12	2
<b>TOTAL</b>		<b>0.73</b>		<b>0.53</b>		<b>1.39</b>	<b>2.66</b>	<b>6</b>



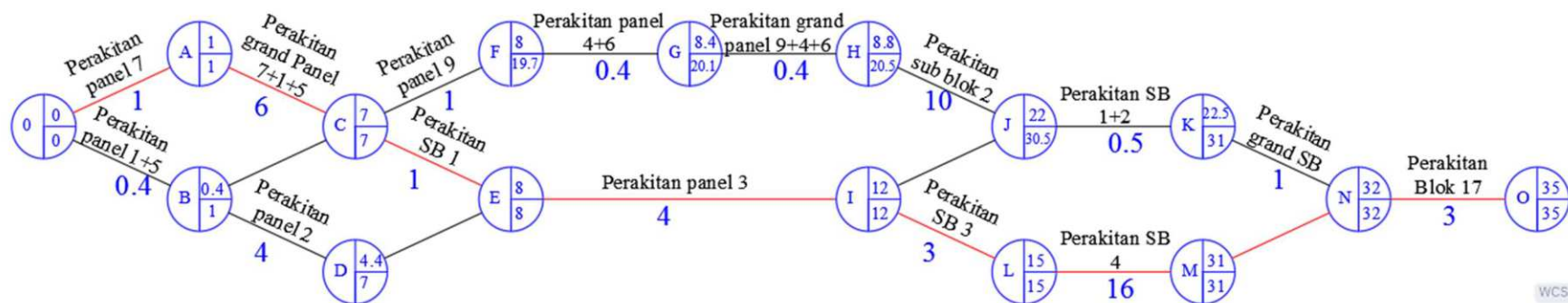
### BUNGAN KETERGANTUNGAN BLOK 17

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LF	Kritis
A	Perakitan panel 7	-	1	6	0.0	1.0	1.0	Ya
B	Perakitan panel 1+5	-	0.4	6	0.0	0.4	1.0	Tidak
C	Perakitan grand panel	A,B	6	6	1.0	7.0	7.0	Ya
D	Perakitan panel 2	B	4	6	0.4	4.4	7.0	Tidak
E	Perakitan sub blok 1	C, D	1	6	7.0	8.0	8.0	Ya
F	Perakitan panel 9	C	1	6	7.0	8.0	19.7	Tidak
G	Perakitan panel 4+6	F	0.4	6	8.0	8.4	20.1	Tidak
H	Perakitan grand panel	G	0.4	6	8.4	8.8	20.5	Tidak
I	Perakitan panel 3	E	4	6	8.0	12.0	12.0	Ya
J	Perakitan sub blok 2	H, I	10	6	12.0	22.0	30.5	Tidak
K	Perakitan SB 1+2	J	0.5	6	22.0	22.5	31.0	Tidak
L	Perakitan sub blok 3	I	3	6	12.0	15.0	15.0	Ya
M	Perakitan sub blok 4	L	16	6	15.0	31.0	31.0	Ya
N	Perakitan SB 1+2+3	K,M	1	6	31.0	32.0	32.0	Ya
O	Perakitan blok 17	O	3	6	32.0	35.0	35.0	Ya



RINGAN KERJA BLOK 17

Jalur kritis A-C-E-I-L-M-N-O





# BLOK 18



## RHITUNGAN DAN PERAKITAN BLOK 18

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL (1) SIDE											
1	Lifting SP A dan B	44-51.SP.SB1.SS18.Sb		0.44			0.537 x w	0.24	2	0.12	7.08
2	Fitting SP A ke B	44-51.SP.SB1.SS18.Sb	4			0.067 x l		0.27	2	0.13	8.04
3	Welding SP A dan B	44-51.SP.SB1.SS18.Sb	8		0.133 x l			1.06	2	0.53	31.92
4	Lifting MF 45,47,48,50,51	MF.SB1.SS18.Sb		0.06			0.537 x w	0.03	2	0.02	0.98
5	Lifting WF 46,49	46&49.WF.SB1.SS18.Sb		0.07			0.537 x w	0.04	2	0.02	1.08
6	Fiting MF	45.MF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
7	Fiting MF	47.MF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
8	Fiting MF	48.MF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
9	Fiting MF	50.MF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
10	Fiting MF	51.MF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
11	Fiting WF	46.WF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
12	Fiting WF	49.WF.SB1.SS18.Sb	2.24			0.067 x l		0.15	2	0.08	4.50
13	Welding MF	45.MF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
14	Welding MF	47.MF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
15	Welding MF	48.MF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
16	Welding MF	50.MF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
17	Welding MF	51.MF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
18	Welding WF	46.WF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
19	Welding WF	49.WF.SB1.SS18.Sb	4.48		0.133 x l			0.60	2	0.30	17.88
20	Lifting Brck. of MF 45,47,48,50,51	BM.SB1.SS18.Sb		0.020			0.537 x w	0.01	2	0.01	0.32
21	Lifting Brck. of WF 46,49	46&49.BW.SB1.SS18.Sb		0.011				0.01	2	0.00	0.17
22	Fiting Brck. of MF	45.BM.SB1.SS18.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
23	Fiting Brck. of MF	47.BM.SB1.SS18.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
24	Fiting Brck. of MF	48.BM.SB1.SS18.Sb	0.5			0.067 x l		0.03	2	0.02	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MINIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
25	Fiting Brck. of MF	50.BM.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
26	Fiting Brck. of MF	51.BM.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
27	Fiting Brck. of WF	46.BW.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
28	Fiting Brck. of WF	49.BW.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
29	Welding Brck. of MF	45.BM.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
30	Welding Brck. of MF	47.BM.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
31	Welding Brck. of MF	48.BM.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
32	Welding Brck. of MF	50.BM.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
33	Welding Brck. of MF	51.BM.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
34	Welding Brck. of WF	46.BW.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
35	Welding Brck. of WF	49.BW.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
<b>JUMLAH</b>			66.04	0.60					3.79	227.24
PANEL (3) VERT. BULKHEAD FR 44										
1	Lifting BP A dan B	44.BP.SB1.SS18.Sb		0.21		0.537 x w	0.11	2	0.06	3.39
2	Fiting BP A ke B	44.BP.SB1.SS18.Sb	2.08			0.067 x l	0.14	2	0.07	4.18
3	Welding BP A ke B	44.BP.SB1.SS18.Sb	4.16			0.133 x l	0.55	2	0.28	16.58
4	Lifting SF A,B,C	44.ST.SB1.SS18.Sb		0.019		0.537 x w	0.01	2	0.00	0.30
5	Fiting SF	44.ST.SB1.SS18.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
6	Fiting SF	44.ST.SB1.SS18.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
7	Fiting SF	44.ST.SB1.SS18.Sb	2.19			0.067 x l	0.15	2	0.07	4.41
8	Welding SF	44.ST.SB1.SS18.Sb	4.39			0.133 x l	0.58	2	0.29	17.50
9	Welding SF	44.ST.SB1.SS18.Sb	4.39			0.133 x l	0.58	2	0.29	17.50
10	Welding SF	44.ST.SB1.SS18.Sb	4.39			0.133 x l	0.58	2	0.29	17.50
11	Lifting Brck. of Siffener A,B,C	44.BS.SB1.SS18.Sb		0.012		0.537 x w	0.01	2	0.00	0.19
12	Fiting Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
13	Fiting Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
14	Fiting Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5			0.067 x l	0.03	2	0.02	1.01
15	Welding Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00
16	Welding Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5			0.133 x l	0.07	2	0.03	2.00





	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
17	Welding Brck. of Siffener	44.BS.SB1.SS18.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
<b>JUMLAH</b>			28.97	0.24						1.66	99.37
<b>TOTAL</b>				0.84							
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL (2) SIDE											
<b>SUB BLOCK 4 (DECK)</b>											
PANEL (6) DECK											
1	Lifting DP A-G	44-51.DP.SB4.SS18		1.80		0.537 x w	0.97	2	0.48	29.06	
2	Fiting DP A ke	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
3	Fiting DP B ke C	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
4	Fiting DP C ke D	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
5	Fiting DP D ke E	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
6	Fiting DP E ke F	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
7	Fiting DP F ke G	44-51.DP.SB4.SS18	4.25		0.067 x l		0.28	2	0.14	8.54	
8	Welding DP A ke	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
9	Welding DP B ke C	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
10	Welding DP C ke D	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
11	Welding DP D ke E	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
12	Welding DP E ke F	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
13	Welding DP F ke G	44-51.DP.SB4.SS18	8.5		0.133 x l		1.13	2	0.57	33.92	
14	Lifting DL C, Sb dan PS	44- 51.DL.SB4.SS18."C,Sb,PS		0.17		0.537 x w	0.09	2	0.05	2.78	
15	Fiting DL	44-51.DL.SB4.SS18."C	3.95		0.067 x l		0.26	2	0.13	7.94	
16	Fiting DL	44-51.DL.SB4.SS18.Sb	3.82		0.067 x l		0.26	2	0.13	7.68	
17	Fiting DL	44-51.DL.SB4.SS18.PS	3.82		0.067 x l		0.26	2	0.13	7.68	
18	Welding DL	44-51.DL.SB4.SS18."C	7.90		0.133 x l		1.05	2	0.53	31.53	
19	Welding DL	44-51.DL.SB4.SS18.Sb	7.90		0.133 x l		1.05	2	0.53	31.53	
20	Welding DL	44-51.DL.SB4.SS18.PS	7.90		0.133 x l		1.05	2	0.53	31.53	
21	Lifting DT 44-50 Sb&PS	44-50.DT.SB4.SS18.Sb		0.44		0.537 x w	0.24	2	0.12	7.15	



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN			FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING	JAM			MINIT	
		(m)	(ton)	JO/unit	JO/unit	JO/unit					
22	Fiting DT	44.DT.SB4.SS18.Sb	2.2			0.067 x l		0.15	2	0.07	4.42
23	Fiting DT	45.DT.SB4.SS18.Sb	4.4			0.067 x l		0.29	2	0.15	8.84
24	Fiting DT	46.DT.SB4.SS18.Sb	4.4			0.067 x l		0.29	2	0.15	8.84
25	Fiting DT	47.DT.SB4.SS18.Sb	4.4			0.067 x l		0.29	2	0.15	8.84
26	Fiting DT	48.DT.SB4.SS18.Sb	4.4			0.067 x l		0.29	2	0.15	8.84
27	Fiting DT	49.DT.SB4.SS18.Sb	2.2			0.067 x l		0.15	2	0.07	4.42
28	Fiting DT	50.DT.SB4.SS18.Sb	4.4			0.067 x l		0.29	2	0.15	8.84
29	Fiting DT	44.DT.SB4.SS18.PS	2.2			0.067 x l		0.15	2	0.07	4.42
30	Fiting DT	45.DT.SB4.SS18.PS	4.4			0.067 x l		0.29	2	0.15	8.84
31	Fiting DT	46.DT.SB4.SS18.PS	4.4			0.067 x l		0.29	2	0.15	8.84
32	Fiting DT	47.DT.SB4.SS18.PS	4.4			0.067 x l		0.29	2	0.15	8.84
33	Fiting DT	48.DT.SB4.SS18.PS	4.4			0.067 x l		0.29	2	0.15	8.84
34	Fiting DT	49.DT.SB4.SS18.PS	2.2			0.067 x l		0.15	2	0.07	4.42
35	Fiting DT	50.DT.SB4.SS18.PS	4.4			0.067 x l		0.29	2	0.15	8.84
36	Welding DT	44.DT.SB4.SS18.Sb	4.4			0.133 x l		0.59	2	0.29	17.56
37	Welding DT	45.DT.SB4.SS18.Sb	8.8			0.133 x l		1.17	2	0.59	35.11
38	Welding DT	46.DT.SB4.SS18.Sb	8.8			0.133 x l		1.17	2	0.59	35.11
39	Welding DT	47.DT.SB4.SS18.Sb	8.8			0.133 x l		1.17	2	0.59	35.11
40	Welding DT	48.DT.SB4.SS18.Sb	8.8			0.133 x l		1.17	2	0.59	35.11
41	Welding DT	49.DT.SB4.SS18.Sb	4.4			0.133 x l		0.59	2	0.29	17.56
42	Welding DT	50.DT.SB4.SS18.Sb	8.8			0.133 x l		1.17	2	0.59	35.11
43	Welding DT	44.DT.SB4.SS18.PS	4.4			0.133 x l		0.59	2	0.29	17.56
44	Welding DT	45.DT.SB4.SS18.PS	8.8			0.133 x l		1.17	2	0.59	35.11
45	Welding DT	46.DT.SB4.SS18.PS	8.8			0.133 x l		1.17	2	0.59	35.11
46	Welding DT	47.DT.SB4.SS18.PS	8.8			0.133 x l		1.17	2	0.59	35.11
47	Welding DT	48.DT.SB4.SS18.PS	8.8			0.133 x l		1.17	2	0.59	35.11
48	Welding DT	49.DT.SB4.SS18.PS	4.4			0.133 x l		0.59	2	0.29	17.56
49		50.DT.SB4.SS18.PS	8.8			0.133 x l		1.17	2	0.59	35.11
<b>JUMLAH</b>			270.20	2.42						15.65	939.10



**SUB BLOCK 1, PANEL 1**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP A dan B	0.12					0.12	2
2			Fiting SP A ke B	0.13			0.13	2
3					Welding SP A dan B	0.53	0.53	2
4	Lifting MF & WF	0.02					0.02	2
5			Fiting MF ke SP	0.38			0.38	2
6			Fiting WF ke SP	0.15	Welding MF ke SP	1.49	1.49	4
7					Welding WF ke SP	0.60	0.60	2
8	Lifting Brck. of Main & Web Frame	0.005					0.005	1
9			Fiting Brck. of MF ke MF	0.08			0.08	1
10			Fiting Brck. of WF ke WF	0.03	Welding Brck. of MF ke MF	0.17	0.17	1
11					Welding Brck. of WF ke WF	0.07	0.07	1
	<b>TOTAL</b>	<b>0.14</b>		<b>0.78</b>		<b>2.85</b>	<b>3.58</b>	<b>20</b>

**SUB BLOCK 1, PANEL 3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.06					0.06	2
2			Fiting BP A dan B	0.07			0.07	2
3					Welding BP A dan B	0.28	0.28	2
4	Lifting SF dan Brck. of SF	0.005					0.00	2
5			Fiting SF ke BP	0.22			0.22	1
6					Welding SF ke BP	0.88	0.88	1
7			Fiting Brck. of SF ke SF	0.05			0.05	1
8					Welding Brck. of SF ke SF	0.10	0.10	1
	<b>TOTAL</b>	<b>0.06</b>		<b>0.34</b>		<b>1.25</b>	<b>1.65</b>	<b>12</b>



**PERAKITAN SUB-BLOCK 1 (STARBOARD)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 3 (Vert. Bulkhead)	0.06					0.06	2
2			Fiting Panel 3 ke Panel 1 (Side)	0.07			0.07	2
3					Welding Vert. Bulkhead ke SP	0.28	0.28	2
	<b>TOTAL</b>	<b>0.06</b>		<b>0.07</b>		<b>0.28</b>	<b>0.41</b>	<b>6</b>

**SUB BLOCK 2, PANEL 2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP A dan B	0.12					0.12	2
2			Fiting SP A ke B	0.13			0.13	2
3					Welding SP A dan B	0.53	0.53	2
4	Lifting MF & WF	0.02					0.02	2
5			Fiting MF ke SP	0.38			0.38	2
6			Fiting WF ke SP	0.15	Welding MF ke SP	1.49	1.49	4
7					Welding WF ke SP	0.60	0.60	2
8	Lifting Brck. of Main & Web Frame	0.01					0.005	2
9			Fiting Brck. of MF ke MF	0.08			0.08	2
10			Fiting Brck. of WF ke WF	0.03	Welding Brck. of MF ke MF	0.17	0.17	2
11					Welding Brck. of WF ke WF	0.07	0.07	2
	<b>TOTAL</b>	<b>0.14</b>		<b>0.78</b>		<b>2.85</b>	<b>3.58</b>	<b>6</b>

**SUB BLOCK 2, PANEL 4**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		



**SUB BLOCK 2, PANEL 4**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.06					0.06	2
2			Fiting BP A dan B	0.070			0.07	2
3					Welding BP A dan B	0.276	0.28	2
4	Lifting SF dan Brck. of SF	0.005					0.00	2
5			Fiting SF ke BP	0.220			0.22	2
6					Welding SF ke BP	0.875	0.88	2
7			Fiting Brck. of SF ke SF	0.050			0.05	2
8					Welding Brck. of SF ke SF	0.100	0.10	2
	<b>TOTAL</b>	<b>0.06</b>		<b>0.34</b>		<b>1.25</b>	<b>1.65</b>	<b>6</b>

**PERAKITAN SUB-BLOCK 2 (PORT SIDE)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 3 (Vert. Bulkhead)	0.06					0.06	2
2			Fiting Panel 3 ke Panel 1 (Side)	0.07			0.07	2
3					Welding Vert. Bulkhead ke SP	0.28	0.28	2
	<b>TOTAL</b>	<b>0.06</b>		<b>0.07</b>		<b>0.28</b>	<b>0.41</b>	<b>6</b>

**PERAKITAN SUB BLOK 1+2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Block 2	0.23					0.23	2
2			Fiting SB 2 ke SB 1	0.08			0.08	2
3					Welding SP ke Vert. Bulkhead	0.33	0.33	2



**PERAKITAN SUB BLOK 1+2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
	<b>TOTAL</b>	0.23		0.08		0.33	0.64	6

**SUB BLOK 3, PANEL 5**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	0.26					0.26	2
2			Fiting DP A ke B	0.20			0.20	2
3			Fiting DP B ke C	0.08	Welding DP A ke B	0.40	0.40	4
4			Fiting DP C ke D	0.08	Welding DP B ke C	0.15	0.15	4
5					Welding DP C ke D	0.17	0.17	2
9	Lifting SF & Bracket A,B,C	0.03					0.03	2
10			Fiting SF	0.23			0.23	1
11					Fiting SF	0.89	0.89	1
12			Fiting Brck. of SF	0.05			0.05	1
13					Fiting Brck. of SF	0.10	0.10	1
	<b>TOTAL</b>	0.29		0.64		1.71	2.48	20

**PERAKITAN SUB BLOK 1+2+3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Block 3	0.29					0.29	2
2			Fiting SB 3 ke SB 1	0.08			0.08	2
3					Welding Vert. Bulkhead ke SP	0.33	0.33	2
	<b>TOTAL</b>	0.29		0.08		0.33	0.70	6

**SUB BLOK 4, PANEL 6**



KEGIATAN	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-G	0.48					0.48	2
2			Fiting DP A ke B	0.14			0.14	2
3			Fiting DP B ke C	0.14	Welding DP A ke B	0.57	0.57	4
4			Fiting DP C ke D	0.14	Welding DP B ke C	0.57	0.57	4
5			Fiting DP D ke E	0.14	Welding DP C ke D	0.57	0.57	4
6			Fiting DP E ke F	0.14	Welding DP D ke E	0.57	0.57	4
7			Fiting DP F ke G	0.14	Welding DP E ke F	0.57	0.57	4
8					Welding DP F ke G	0.57	0.57	2
9	Lifting DL	0.05					0.05	1
10			Fiting DL ke DP	0.39			0.39	1
11					Welding DL ke DP	1.58	1.58	1
12	Lifting DT Sb dan PS	0.12					0.12	1
13			Fiting DT ke DP	1.77			1.77	1
14					Welding DT ke DP	7.02	7.02	1
<b>TOTAL</b>		<b>0.65</b>		<b>3.01</b>		<b>11.99</b>	<b>14.94</b>	<b>32</b>

**PERAKITAN BLOK 18**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub-Block 4	0.65					0.65	2
2			Fiting SB4 ke SB1 , SB1, SB2, SB3	0.70			0.70	2
3					Welding DP ke SP SB1 & SB2	1.13	1.13	2
4					Welding DP ke SP SB3	1.20	1.20	2
5					Welding Brck. of SB1 ke SB4	0.12	0.12	2
6					Welding Brck. of SB2 ke SB4	0.12	0.12	2
<b>TOTAL</b>		<b>0.65</b>		<b>0.70</b>		<b>2.56</b>	<b>3.92</b>	<b>6</b>

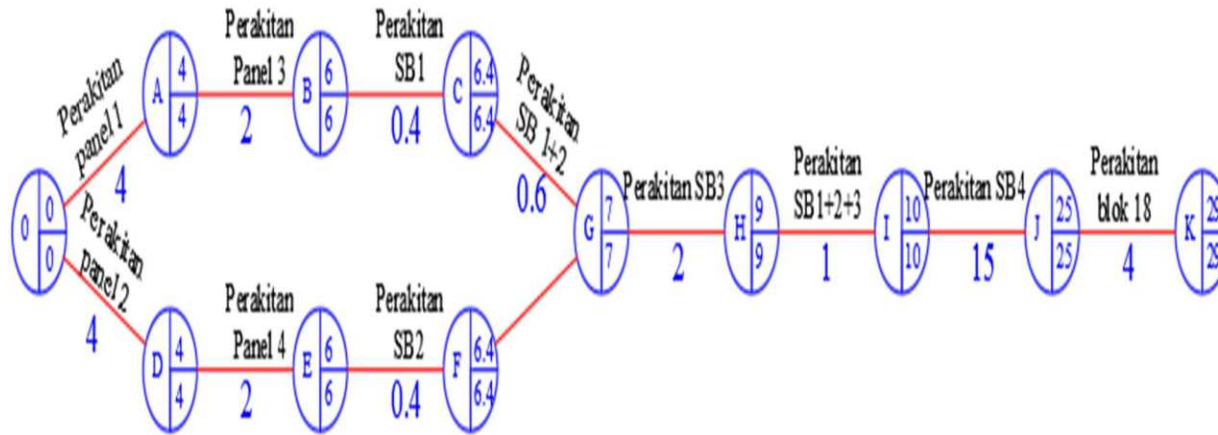


## B. HUBUNGAN KETERGANTUNGAN BLOK 18

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan panel 1	-	4	6	0	4	0	4	Ya
B	Perakitan panel 3	A	2	6	4	6	4	6	Ya
C	Perakitan SB 1	B	0.4	6	6	6	6	6.4	Ya
D	Perakitan panel 2	-	4	6	0	4	0	4	Ya
E	Perakitan panel 4	D	2	6	4	6	4	6	Ya
F	Perakitan SB 2	E	0.4	6	6	6	6	6.4	Ya
G	Perakitan SB 1+2	C,F	0.6	6	6.4	7	6	7	Ya
H	Perakitan SB 3	G	2	6	7	9	7	9	Ya
I	Perakitan SB 1+2+3	H	1	6	9	10	9	10	Ya
J	Perakitan SB 4	I	15	6	10	25	10	25	Ya
K	Perakitan blok 18	J	4	6	25	29	25	29	Ya

## C. JARINGAN KERJA BLOK 18







# BLOK 19



## RHITUNGAN DAN PERAKITAN BLOK 19

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
<b>SUB BLOCK 1</b>											
PANEL 7 VERT. BULKHEAD											
1	Lifting BP A dan B	25.BHP.SB1.SS19		0.39			0.537 x w	0.21	2	0.105	6.29
2	Fiting BP A ke B	25.BHP.SB1.SS19	4.81			0.067 x l		0.32	2	0.161	9.67
3	Welding BP A dan B	25.BHP.SB1.SS19	9.62		0.133 x l			1.28	2	0.640	38.38
4	Lifting SF A-E	25.ST.SB1.SS19		0.03			0.537 x w	0.02	2	0.008	0.47
5	Fiting SF A ke BP	25.ST.SB1.SS19	1.92			0.067 x l		0.13	2	0.064	3.87
6	Fiting SF B ke BP	25.ST.SB1.SS19	1.92			0.067 x l		0.13	2	0.064	3.87
7	Fiting SF C ke BP	25.ST.SB1.SS19	1.92			0.067 x l		0.13	2	0.064	3.87
8	Fiting SF D ke BP	25.ST.SB1.SS19	1.92			0.067 x l		0.13	2	0.064	3.87
9	Fiting SF E ke BP	25.ST.SB1.SS19	1.92			0.067 x l		0.13	2	0.064	3.87
10	Welding SF A ke BP	25.ST.SB1.SS19	3.85		0.133 x l			0.51	2	0.256	15.35
11	Welding SF B ke BP	25.ST.SB1.SS19	3.85		0.133 x l			0.51	2	0.256	15.35
12	Welding SF C ke BP	25.ST.SB1.SS19	3.85		0.133 x l			0.51	2	0.256	15.35
13	Welding SF D ke BP	25.ST.SB1.SS19	3.85		0.133 x l			0.51	2	0.256	15.35
14	Welding SF E ke BP	25.ST.SB1.SS19	3.85		0.133 x l			0.51	2	0.256	15.35
15	Lifting Brck. of SF A-E	25.BS.SB1.SS19		0.02			0.537 x w	0.01	2	0.005	0.32
16	Fiting Brck. of SF A ke SF	25.BS.SB1.SS19	0.5			0.067 x l		0.03	2	0.017	1.01
17	Fiting Brck. of SF B ke SF	25.BS.SB1.SS19	0.5			0.067 x l		0.03	2	0.017	1.01
18	Fiting Brck. of SF C ke SF	25.BS.SB1.SS19	0.5			0.067 x l		0.03	2	0.017	1.01
19	Fiting Brck. of SF D ke SF	25.BS.SB1.SS19	0.5			0.067 x l		0.03	2	0.017	1.01
20	Fiting Brck. of SF E ke SF	25.BS.SB1.SS19	0.5			0.067 x l		0.03	2	0.017	1.01
21	Welding Brck. of SF A ke SF	25.BS.SB1.SS19	0.5		0.133 x l			0.07	2	0.033	2.00
22	Welding Brck. of SF B ke SF	25.BS.SB1.SS19	0.5		0.133 x l			0.07	2	0.033	2.00
23	Welding Brck. of SF C ke SF	25.BS.SB1.SS19	0.5		0.133 x l			0.07	2	0.033	2.00
24	Welding Brck. of SF D ke SF	25.BS.SB1.SS19	0.5		0.133 x l			0.07	2	0.033	2.00
25	Welding Brck. of SF E ke SF	25.BS.SB1.SS19	0.5		0.133 x l			0.07	2	0.033	2.00



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT	
		(m)	(ton)	JO/unit	JO/unit	JO/unit					
<b>JUMLAH</b>		48.29	0.440						2.77	166.24	
<b>SUB BLOCK 2 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP A dan B	25 - 35.SP.SB2.SS19.Sb		0.49			0.537 x w	0.26	2	0.131	7.86
2	Fiting BP A ke B	26 - 35.SP.SB2.SS19.Sb	6.15			0.067 x l		0.41	2	0.206	12.36
3	Welding BP A dan B	28 - 35.SP.SB2.SS19.Sb	12.3		0.133 x l			1.64	2	0.818	49.08
4	Lifting MF 26,27,28,29,30,31,32,34,35	MF.SB2.SS19.Sb		0.05			0.537 x w	0.03	2	0.014	0.85
5	Fiting MF ke SP	26.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
6	Fiting MF ke SP	27.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
7	Fiting MF ke SP	28.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
8	Fiting MF ke SP	29.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
9	Fiting MF ke SP	30.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
10	Fiting MF ke SP	31.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
11	Fiting MF ke SP	32.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
12	Fiting MF ke SP	34.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
13	Fiting MF ke SP	35.MF.SB2.SS19.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
14	Welding MF ke SP	26.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
15	Welding MF ke SP	27.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
16	Welding MF ke SP	28.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
17	Welding MF ke SP	29.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
18	Welding MF ke SP	30.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
19	Welding MF ke SP	31.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
20	Welding MF ke SP	32.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
21	Welding MF ke SP	34.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
22	Welding MF ke SP	35.MF.SB2.SS19.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
23	Lifting Brck. of MF	BM.SB2.SS19.Sb		0.04			0.537 x w	0.02	2	0.010	0.58



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
26,27,28,29,30,31,32,34,35										
24	Fiting Brck. of MF ke MF	26.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
25	Fiting Brck. of MF ke MF	27.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
26	Fiting Brck. of MF ke MF	28.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
27	Fiting Brck. of MF ke MF	29.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
28	Fiting Brck. of MF ke MF	30.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
29	Fiting Brck. of MF ke MF	31.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
30	Fiting Brck. of MF ke MF	32.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
31	Fiting Brck. of MF ke MF	34.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
32	Fiting Brck. of MF ke MF	35.BM.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
33	Welding Brck. of MF ke MF	26.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
34	Welding Brck. of MF ke MF	27.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
35	Welding Brck. of MF ke MF	28.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
36	Welding Brck. of MF ke MF	29.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
37	Welding Brck. of MF ke MF	30.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
38	Welding Brck. of MF ke MF	31.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
39	Welding Brck. of MF ke MF	32.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
40	Welding Brck. of MF ke MF	34.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
41	Welding Brck. of MF ke MF	35.BM.SB2.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
<b>JUMLAH</b>			62.08	0.58					3.36	201.63
PANEL 2 LONGI. BULKHEAD										
1	Lifting BP A dan B	25-35.BHP.SB2.SS19.Sb		0.50			0.537 x w	0.27	2	0.134 8.02
2	Fiting BP A ke B	25-35.BHP.SB2.SS19.Sb	6.14			0.067 x l	0.41	2	0.206	12.34
3	Welding BP A dan B	25-35.BHP.SB2.SS19.Sb	12.28			0.133 x l	1.63	2	0.816	48.99
4	Lifting SF	25-35.ST.SB2.SS19.Sb		0.06			0.537 x w	0.03	2	0.016 0.97
5	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
6	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
7	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
8	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
9	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
10	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
11	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
12	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
13	Fiting SF ke BP	25-35.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
14	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
15	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
16	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
17	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
18	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
19	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
20	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
21	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
22	Welding SF ke BP	25-35.ST.SB2.SS19.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
23	Lifting Brck. of SF	25-35.BS.SB2.SS19.Sb		0.04		0.537 x w	0.02	2	0.010	0.58
24	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
25	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
26	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
27	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
28	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
29	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
30	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
31	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
32	Fiting Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
33	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
34	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
35	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
36	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
37	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
38	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
39	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
40	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
41	Welding Brck. of SF ke SF	25-35.BS.SB2.SS19.Sb	1		0.133 x l		0.13	2	0.067	3.99
<b>JUMLAH</b>			91.13	0.59					5.22	313.03
PANEL 9 VERT. BULKHEAD										
1	Lifting BP A dan B	33.BHP.SB2.SS19.Sb		0.14		0.537 x w	0.08	2	0.039	2.32
2	Fiting BP A ke B	33.BHP.SB2.SS19.Sb	1.8			0.067 x l	0.12	2	0.059	3.57
3	Welding BP A dan B	33.BHP.SB2.SS19.Sb	3.6		0.133 x l		0.47	2	0.236	14.16
4	Lifting SF A-D	33.ST.SB2.SS19.Sb		0.01		0.537 x w	0.01	2	0.004	0.22
5	Fiting SF ke BP	33.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
6	Fiting SF ke BP	33.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
7	Fiting SF ke BP	33.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
8	Fiting SF ke BP	33.ST.SB2.SS19.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
9	Welding SF ke BP	33.ST.SB2.SS19.Sb	4.39		0.133 x l		0.58	2	0.292	17.50
10	Welding SF ke BP	33.ST.SB2.SS19.Sb	4.39		0.133 x l		0.58	2	0.292	17.50
11	Welding SF ke BP	33.ST.SB2.SS19.Sb	4.39		0.133 x l		0.58	2	0.292	17.50
12	Welding SF ke BP	33.ST.SB2.SS19.Sb	4.39		0.133 x l		0.58	2	0.292	17.50
13	Lifting Brck. of SF A-D	33.BS.SB2.SS19.Sb		0.01		0.537 x w	0.00	2	0.002	0.13
14	Fiting Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
15	Fiting Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
16	Fiting Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
17	Fiting Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
18	Welding Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5		0.133 x l		0.07	2	0.033	2.00



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
19	Welding Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
20	Welding Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
21	Welding Brck. of SF ke SF	33.BS.SB2.SS19.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
<b>JUMLAH</b>			35.64	0.17					2.00	120.03
<b>TOTAL</b>			1.3366							
<b>SUB BLOCK 3 (PORT SIDE)</b>										
<b>TOTAL</b>			1.34							
<b>SUB BLOCK 4</b>										
PANEL 11 DECK										
1	Lifting DP A - E	25-35.DP.SB4.SS19		1.59		0.537 x w	0.85	2	0.427	25.64
2	Fiting DP A ke B	25-35.DP.SB4.SS19	6.2		0.067 x l		0.42	2	0.208	12.46
3	Fiting DP B ke C	25-35.DP.SB4.SS19	6.2		0.067 x l		0.42	2	0.208	12.46
4	Fiting DP C ke D	25-35.DP.SB4.SS19	6.2		0.067 x l		0.42	2	0.208	12.46
5	Fiting DP D ke E	25-35.DP.SB4.SS19	6.2		0.067 x l		0.42	2	0.208	12.46
6	Welding DP A ke B	25-35.DP.SB4.SS19	12.4		0.133 x l		1.65	2	0.825	49.48
7	Welding DP B ke C	25-35.DP.SB4.SS19	12.4		0.133 x l		1.65	2	0.825	49.48
8	Welding DP C ke D	25-35.DP.SB4.SS19	12.4		0.133 x l		1.65	2	0.825	49.48
9	Welding DP D ke E	25-35.DP.SB4.SS19	12.4		0.133 x l		1.65	2	0.825	49.48
10	Lifting DT SB & PS	DT.SB4.SS19.Sb&PS		0.249		0.537 x w	0.13	2	0.067	4.00
11	Fiting DT SB ke DP	26.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
12	Fiting DT SB ke DP	27.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
13	Fiting DT SB ke DP	28.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
14	Fiting DT SB ke DP	29.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
15	Fiting DT SB ke DP	30.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
16	Fiting DT SB ke DP	31.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
17	Fiting DT SB ke DP	32.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
18	Fiting DT SB ke DP	34.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
19	Fiting DT SB ke DP	35.DT.SB4.SS19.Sb	4.51		0.067 x l		0.30	2	0.151	9.07
20	Fiting DT SB ke DP	26.DT.SB4.SS19.PS	4.51		0.067 x l		0.30	2	0.151	9.07





NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
21	Fiting DT SB ke DP	27.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
22	Fiting DT SB ke DP	28.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
23	Fiting DT SB ke DP	29.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
24	Fiting DT SB ke DP	30.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
25	Fiting DT SB ke DP	31.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
26	Fiting DT SB ke DP	32.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
27	Fiting DT SB ke DP	34.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
28	Fiting DT SB ke DP	35.DT.SB4.SS19.PS	4.51			0.067 x l	0.30	2	0.151	9.07
29	Welding DT SB ke DP	26.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
30	Welding DT SB ke DP	27.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
31	Welding DT SB ke DP	28.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
32	Welding DT SB ke DP	29.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
33	Welding DT SB ke DP	30.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
34	Welding DT SB ke DP	31.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
35	Welding DT SB ke DP	32.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
36	Welding DT SB ke DP	34.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
37	Welding DT SB ke DP	35.DT.SB4.SS19.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
38	Welding DT PS ke DP	26.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
39	Welding DT PS ke DP	27.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
40	Welding DT PS ke DP	28.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
41	Welding DT PS ke DP	29.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
42	Welding DT PS ke DP	30.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
43	Welding DT PS ke DP	31.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
44	Welding DT PS ke DP	32.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
45	Welding DT PS ke DP	34.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
46	Welding DT PS ke DP	35.DT.SB4.SS19.PS	9.02			0.133 x l	1.20	2	0.600	35.99
47	Lifting Brck. of DT SB&PS	DT.SB4.SS19.Sb&PS		0.0401		0.537 x w	0.02	2	0.011	0.65
48	Fiting Brck. of DT SB ke DT	26.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
49	Fiting Brck. of DT SB ke DT	27.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
		(m)	(ton)	JO/unit	JO/unit	JO/unit				
50	Fiting Brck. of DT SB ke DT	28.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
51	Fiting Brck. of DT SB ke DT	29.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
52	Fiting Brck. of DT SB ke DT	30.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
53	Fiting Brck. of DT SB ke DT	31.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
54	Fiting Brck. of DT SB ke DT	32.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
55	Fiting Brck. of DT SB ke DT	34.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
56	Fiting Brck. of DT SB ke DT	35.DT.SB4.SS19.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
57	Fiting Brck. of DT PS ke DT	26.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
58	Fiting Brck. of DT PS ke DT	27.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
59	Fiting Brck. of DT PS ke DT	28.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
60	Fiting Brck. of DT PS ke DT	29.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
61	Fiting Brck. of DT PS ke DT	30.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
62	Fiting Brck. of DT PS ke DT	31.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
63	Fiting Brck. of DT PS ke DT	32.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
64	Fiting Brck. of DT PS ke DT	34.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
65	Fiting Brck. of DT PS ke DT	35.DT.SB4.SS19.PS	0.5			0.067 x l	0.03	2	0.017	1.01
66	Welding Brck. of DT SB ke DT	26.DT.SB4.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
67	Welding Brck. of DT SB ke DT	27.DT.SB4.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
68	Welding Brck. of DT SB ke DT	28.DT.SB4.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
69	Welding Brck. of DT SB ke DT	29.DT.SB4.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
70	Welding Brck. of DT SB ke DT	30.DT.SB4.SS19.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
79	Welding Brck. of DT PS ke DT	30.DT.SB4.SS19.PS	0.5			0.133 x l	0.07	2	0.033	2.00
80	Welding Brck. of DT PS ke DT	31.DT.SB4.SS19.PS	0.5			0.133 x l	0.07	2	0.033	2.00
81	Welding Brck. of DT PS ke DT	32.DT.SB4.SS19.PS	0.5			0.133 x l	0.07	2	0.033	2.00
82	Welding Brck. of DT PS ke DT	34.DT.SB4.SS19.PS	0.5			0.133 x l	0.07	2	0.033	2.00
83	Welding Brck. of DT PS ke DT	35.DT.SB4.SS19.PS	0.5			0.133 x l	0.07	2	0.033	2.00
<b>JUMLAH</b>			335.94	1.88					19.05	1143.03
<b>PANEL 8 BULKWARK</b>										
1	Lifting Bulwark	25.BL.SB1.SS19		0.11		0.537 x w	0.06	2	0.030	1.79



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI		
		PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT	
		(m)	(ton)	JO/unit	JO/unit	JO/unit					
2	Lifting Brck. of Bulwark	25.BBL.SB1.SS19		0.03			0.537 x w	0.01	1	0.015	0.89
3	Fiting Brck. of Bulwark	25.BBL.SB1.SS19	3.8				0.067 x l	0.26	1	0.257	15.41
4	Welding Brck. of Bulwark	25.BBL.SB1.SS19	3.8		0.133 x l			0.51	1	0.510	30.60
<b>JUMLAH</b>			7.67	0.14						0.81	48.69
<b>PANEL 5 BULKWARK</b>											
1	Lifting Bulwark	25-35.BL.SB2.SS19.Sb		0.20			0.537 x w	0.11	2	0.05	3.28
2	Lifting Brck. of Bulwark	25-35.BBL.SB2.SS19.Sb		0.07			0.537 x w	0.04	1	0.04	2.13
3	Fiting Brck. of Bulwark ke Bulkwark Plate	25-35.BBL.SB2.SS19.Sb	6.8			0.067 x l		0.46	1	0.46	27.46
4	Welding Brck. of Bulwark	25-35.BBL.SB2.SS19.Sb	6.8		0.133 x l			0.91	1	0.91	54.51
<b>JUMLAH</b>			13.66	0.27						1.46	87.38
<b>PANEL 6 BULKWARK</b>											
1	Lifting Bulwark	25-35.BL.SB3.SS19.PS		0.20			0.537 x w	0.11	2	0.05	3.28
2	Lifting Brck. of Bulwark	25-35.BBL.SB3.SS19.PS		0.07			0.537 x w	0.04	1	0.04	2.13
3	Fiting Brck. of Bulwark ke Bulkwark Plate	25-35.BBL.SB2.SS19.Sb	6.8					0.46	1	0.46	27.46
4	Welding Brck. of Bulwark	25-35.BBL.SB3.SS19.PS	6.8		0.133 x l			0.91	1	0.91	54.51
<b>JUMLAH</b>			13.66	0.27						1.46	87.38
<b>TOTAL</b>				2.5584							

**SUB BLOCK 1, PANEL 7**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP A dan B	0.10					0.10	2
2			Fiting SP A ke B	0.16			0.16	2
3					Welding SP A dan B	0.64	0.64	2
4	Lifting SF A-E	0.01					0.01	2
5			Fiting SF A ke BP	0.06			0.06	2



**SUB BLOCK 1, PANEL 7**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
6			Fiting SF B ke BP	0.06	Welding SF A ke BP	0.26	0.26	4
7			Fiting SF C ke BP	0.06	Welding SF B ke BP	0.26	0.26	4
8			Fiting SF D ke BP	0.06	Welding SF C ke BP	0.26	0.26	4
9			Fiting SF E ke BP	0.06	Welding SF D ke BP	0.26	0.26	4
10					Welding SF E ke BP	0.26	0.256	2
11	Lifting Brck. of SF A-E	0.005					0.005	2
12			Fiting Brck. of SF A ke SF	0.017			0.017	2
13			Fiting Brck. of SF B ke SF	0.017	Welding Brck. of SF A ke SF	0.03	0.033	4
14			Fiting Brck. of SF C ke SF	0.017	Welding Brck. of SF B ke SF	0.03	0.033	4
15			Fiting Brck. of SF D ke SF	0.017	Welding Brck. of SF C ke SF	0.03	0.033	4
16			Fiting Brck. of SF E ke SF	0.017	Welding Brck. of SF D ke SF	0.03	0.033	4
17					Welding Brck. of SF E ke SF	0.03	0.033	2
	<b>TOTAL</b>	<b>0.12</b>		<b>0.57</b>		<b>2.09</b>	<b>2.45</b>	<b>6</b>

**SUB BLOCK 2, PANEL 2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.13					0.13	2
2			Fiting BP A dan B	0.21			0.21	2
3					Welding BP A dan B	0.82	0.82	2
4	Lifting SF dan Brck. of SF	0.02					0.02	2
5			Fiting SF ke BP	0.66			0.66	2
6					Welding SF ke BP	2.63	2.63	2
7			Fiting Brck. of SF ke SF	0.15			0.15	2
8					Welding Brck. of SF ke SF	0.60	0.60	2
	<b>TOTAL</b>	<b>0.15</b>		<b>1.02</b>		<b>4.04</b>	<b>5.21</b>	<b>6</b>



**PERAKITAN PANEL 1+9**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 9	0.04					0.04	2
2			Fiting Panel 9 ke Panel 1	0.07			0.07	2
3					Welding BP ke SP	0.27	0.27	2
	<b>TOTAL</b>	<b>0.04</b>		<b>0.07</b>		<b>0.27</b>	<b>0.39</b>	<b>6</b>

**PERAKITAN SUB-BLOCK 2 (STARBOARD)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2	0.16					0.16	2
2			Fiting Panel 2 ke Panel 9	0.07			0.07	2
3					Welding Longi. BP ke Vert. Bulkhead	0.27	0.27	2
	<b>TOTAL</b>	<b>0.16</b>		<b>0.07</b>		<b>0.27</b>	<b>0.50</b>	<b>6</b>

**PERAKITAN SB 1+2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 1	0.24					0.24	2
2			Fiting SB1 ke SB2	0.28			0.28	2
3					Welding BP ke Longi. Bulkhead	0.55	0.55	2
4					Welding BP ke SP	0.55	0.55	2
	<b>TOTAL</b>	<b>0.24</b>		<b>0.28</b>		<b>1.10</b>	<b>1.61</b>	<b>6</b>

**SUB BLOCK 3, PANEL 3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.13					0.13	2



**SUB BLOCK 3, PANEL 3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
2			Fiting BP A dan B	0.21			0.21	2
3					Welding BP A dan B	0.82	0.82	2
4	Lifting SF dan Brck. of SF	0.02					0.02	2
5			Fiting SF ke BP	0.66			0.66	2
6					Welding SF ke BP	2.63	2.63	2
7			Fiting Brck. of SF ke SF	0.15			0.15	2
8					Welding Brck. of SF ke SF	0.60	0.60	2
	<b>TOTAL</b>	<b>0.15</b>		<b>1.02</b>		<b>4.04</b>	<b>5.21</b>	

**PERAKITAN PANEL 4+10**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 10	0.04					0.04	2
2			Fiting Panel 10 ke Panel 4	0.07			0.07	2
3					Welding BP ke SP	0.27	0.27	2
	<b>TOTAL</b>	<b>0.04</b>		<b>0.07</b>		<b>0.27</b>	<b>0.39</b>	<b>6</b>

**PERAKITAN SUB-BLOCK 3 (PORT SIDE)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 3	0.16					0.16	2
2			Fiting Panel 3 ke Panel 10	0.07			0.07	2
3					Welding Longi. BP ke Vert. Bulkhead	0.27	0.27	2
	<b>TOTAL</b>	<b>0.25</b>		<b>0.21</b>		<b>0.82</b>	<b>1.28</b>	<b>6</b>



**PERAKITAN SB 1+2+3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 3	0.36					0.36	2
2			Fiting SB3 ke SB 1	0.14			0.14	2
3					Welding SP ke Vert. BP	0.27	0.27	2
4					Welding Longi. Bulkhead ke Vert. BP	0.27	0.27	2
	<b>TOTAL</b>	<b>0.36</b>		<b>0.14</b>		<b>0.55</b>	<b>1.05</b>	<b>6</b>

**SUB BLOCK 4, PANEL 11**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A - E	0.43					0.43	2
2			Fiting DP A ke B	0.21			0.21	2
3			Fiting DP B ke C	0.21	Welding DP A ke B	0.82	0.82	4
4			Fiting DP C ke D	0.21	Welding DP B ke C	0.82	0.82	4
5			Fiting DP D ke E	0.21	Welding DP C ke D	0.82	0.82	4
6					Welding DP D ke E	0.82	0.82	4
7	Lifting DT SB & PS 26,27,28,29,30,31,32,34,35	0.07					0.07	2
8			Fiting DT SB ke DP	1.360			1.36	2
9			Fiting DT SB ke DP	1.360	Welding DT SB ke DP	5.398	5.40	4
10					Welding DT SB ke DP	5.40	5.40	2
11	Lifting Brck. of DT SB&PS	0.011					0.01	2
12			Fiting Brck. of DT SB ke DT	0.151			0.15	2
13			Fiting Brck. of DT PS ke DT	0.151	Welding Brck. of DT SB ke DT	0.30	0.30	4
14					Welding Brck. of DT PS ke DT	0.30	0.30	2
	<b>TOTAL</b>	<b>0.50</b>		<b>3.85</b>		<b>14.69</b>	<b>16.92</b>	<b>40</b>



**PERAKITAN BLOK 19**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 4	0.69					0.69	2
2			Fiting SB 4 ke SB 1, SB 2, SB3	1.60			1.60	2
3					Welding DP ke SP	1.64	1.64	2
4					Welding DP ke Vert. BP	0.64	0.64	2
5					Welding Brck. of SB 1 ke DP	0.08	0.08	2
6					Welding Brck. of SB 2 ke DP	0.33	0.33	2
7					Welding Brck. of SB 3 ke DP	0.33	0.33	2
8					Welding Brck. of Bulkwark ke SP	0.32	0.32	2
9					Welding Brck. of Bulkwark ke Vert. BP	0.16	0.16	2
	<b>TOTAL</b>	<b>0.69</b>		<b>1.60</b>			<b>3.50</b>	<b>5.78</b>
								<b>6</b>

**B. HUBUNGAN KETERGANTUNGAN BLOK 19**

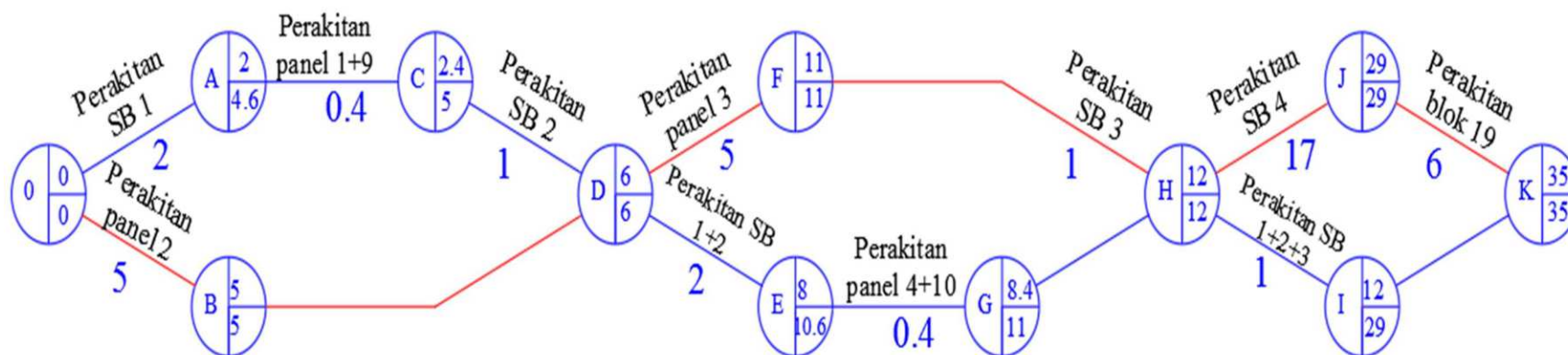
Jalur kritis = B-D-F-H-J-K

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan SB 1	-	2	6	0	2	2.6	4.6	Tidak
B	Perakitan panel 2	-	5	6	0	5	0.0	5	Ya
C	Perakitan panel 1+9	A	0.4	6	2	2.4	4.6	5	Tidak
D	Perakitan SB 2	B,C	1	6	5	6	5	6	Ya
E	Perakitan SB 1+2	D	2	6	6	8	8.6	10.6	Tidak
F	Perakitan panel 3	D	5	6	6	11	6	11	Ya
G	Perakitan panel 4+10	E	0.4	6	8	8.4	10.6	11	Tidak
H	Perakitan SB 3	F,G	1	6	11	12	11	12	Ya
I	Perakitan SB 1+2+3	H	1	6	12	13	28	29	Tidak
J	Perakitan SB 4	H	17	6	12	29	12	29	Ya
K	Perakitan blok 19	I, J	6	6	29	35	29	35	Ya





### C. JARINGAN KERJA BLOK 19





# BLOK 20



### A. PERHITUNGAN DAN PERAKITAN BLOK 20

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP A dan B	36-43.SP.SB1.SS20.Sb		0.405			0.537 x w	0.22	2	0.109	6.52
2	Fitting SP A ke B	36-43.SP.SB1.SS20.Sb	5.1			0.067 x l		0.34	2	0.171	10.25
3	Welding SP A dan B	36-43.SP.SB1.SS20.Sb	10.2		0.133 x l			1.36	2	0.678	40.70
4	Lifting Main Frame	MF.SB1.SS20.Sb		0.041			0.537 x w	0.02	2	0.011	0.66
5	Fiting Main Frame ke SP	36.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
6	Fiting Main Frame ke SP	37.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
7	Fiting Main Frame ke SP	39.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
8	Fiting Main Frame ke SP	40.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
9	Fiting Main Frame ke SP	41.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
10	Fiting Main Frame ke SP	42.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
11	Fiting Main Frame ke SP	43.MF.SB1.SS20.Sb	1.92			0.067 x l		0.13	2	0.064	3.87
12	Welding Main Frame ke SP	36.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
13	Welding Main Frame ke SP	37.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
14	Welding Main Frame ke SP	39.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
15	Welding Main Frame ke SP	40.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
16	Welding Main Frame ke SP	41.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
17	Welding Main Frame ke SP	42.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
18	Welding Main Frame ke SP	43.MF.SB1.SS20.Sb	1.92		0.133 x l			0.26	2	0.128	7.68
19	Lifting Brck. of Main Frame 36,37,39,40,41,42,43	BM.SB1.SS20.Sb		0.028			0.537 x w	0.02	2	0.008	0.45
20	Fiting Brck. of Main Frame ke Main Frame	36.BM.SB1.SS20.Sb	0.5			0.067 x l		0.03	2	0.017	1.01
21	Fiting Brck. of MF ke MF	37.BM.SB1.SS20.Sb	0.5			0.067 x l		0.03	2	0.017	1.01
22	Fiting Brck. of MF ke MF	39.BM.SB1.SS20.Sb	0.5			0.067 x l		0.03	2	0.017	1.01



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
23	Fiting Brck. of MF ke MF	40.BM.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
24	Fiting Brck. of MF ke MF	41.BM.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
25	Fiting Brck. of MF ke MF	42.BM.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
26	Fiting Brck. of MF ke MF	43.BM.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
27	Fiting Brck. of MF ke MF	36.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
28	Fiting Brck. of MF ke MF	37.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
29	Fiting Brck. of MF ke MF	39.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
30	Fiting Brck. of MF ke MF	40.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
31	Fiting Brck. of MF ke MF	41.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
32	Fiting Brck. of MF ke MF	42.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
33	Fiting Brck. of MF ke MF	43.BM.SB1.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
<b>JUMLAH</b>			49.24	0.4739					2.67	160.39
<b>PANEL 2 LONGI. BULKHEAD</b>										
1	Lifting BP A dan B	36-43.BHP.SB1.SS20.Sb		0.413		0.537 x w	0.22	2	0.111	6.66
2	Fiting BP A ke B	36-43.BHP.SB1.SS20.Sb	5.1			0.067 x l	0.34	2	0.171	10.25
3	Welding BP A dan B	36-43.BHP.SB1.SS20.Sb	10.2		0.133 x l		1.36	2	0.678	40.70
4	Lifting SF 36-43	36-43.ST.Sb4.SS20.Sb		0.0470		0.537 x w	0.03	2	0.013	0.76
5	Fiting SF ke BP	36.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
6	Fiting SF ke BP	37.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
7	Fiting SF ke BP	38.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
8	Fiting SF ke BP	39.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
9	Fiting SF ke BP	40.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
10	Fiting SF ke BP	41.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
11	Fiting SF ke BP	42.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
12	Fiting SF ke BP	43.ST.Sb4.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
13	Welding SF ke BP	36.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
14	Welding SF ke BP	37.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
15	Welding SF ke BP	38.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
16	Welding SF ke BP	39.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
17	Welding SF ke BP	40.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
18	Welding SF ke BP	41.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
19	Welding SF ke BP	42.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
20	Welding SF ke BP	43.ST.Sb4.SS20.Sb	0.22		0.133 x l		0.03	2	0.015	0.87
21	Lifting Brck. of SF 36-43	36-43.BS.Sb4.SS20.Sb		0.0281		0.537 x w	0.02	2	0.008	0.45
22	Fiting Brck. of SF ke SF	36.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
23	Fiting Brck. of SF ke SF	37.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
24	Fiting Brck. of SF ke SF	38.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
25	Fiting Brck. of SF ke SF	39.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
26	Fiting Brck. of SF ke SF	40.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
27	Fiting Brck. of SF ke SF	41.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
28	Fiting Brck. of SF ke SF	42.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
29	Fiting Brck. of SF ke SF	43.BS.Sb4.SS20.Sb	0.50		0.067 x l		0.03	2	0.017	1.01
30	Welding Brck. of SF ke SF	36.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
31	Welding Brck. of SF ke SF	37.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
32	Welding Brck. of SF ke SF	38.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
33	Welding Brck. of SF ke SF	39.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
34	Welding Brck. of SF ke SF	40.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
35	Welding Brck. of SF ke SF	41.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
36	Welding Brck. of SF ke SF	42.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
37	Welding Brck. of SF ke SF	43.BS.Sb4.SS20.Sb	0.50		0.133 x l		0.07	2	0.033	2.00
<b>JUMLAH</b>			42.60	0.4885					2.08	125.08
<b>PANEL 7 VERT. BULKHEAD</b>										
1	Lifting BP A dan B	38.BHP.SB1.SS20.Sb		0.144		0.537 x w	0.08	2	0.039	2.32
2	Fiting BP A ke B	38.BHP.SB1.SS20.Sb	1.78		0.067 x l		0.12	2	0.059	3.57
3	Welding BP A dan B	38.BHP.SB1.SS20.Sb	3.55		0.133 x l		0.47	2	0.236	14.16
4	Lifting SF A dan B	38.ST.SB1.SS20.Sb		0.013		0.537 x w	0.01	2	0.004	0.22



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
5	Fiting SF ke BP	38.ST.SB1.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
6	Fiting SF ke BP	38.ST.SB1.SS20.Sb	2.19			0.067 x l	0.15	2	0.073	4.41
7	Welding SF ke BP	38.ST.SB1.SS20.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
8	Welding SF ke BP	38.ST.SB1.SS20.Sb	4.39			0.133 x l	0.58	2	0.292	17.50
9	Lifting Brck. of SF A dan B	38.BS.SB1.SS20.Sb		0.0080		0.537 x w	0.00	2	0.002	0.13
10	Fiting Brck. of SF ke SF	38.BS.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
11	Fiting Brck. of SF ke SF	38.BS.SB1.SS20.Sb	0.5			0.067 x l	0.03	2	0.017	1.01
12	Welding Brck. of SF ke SF	38.BS.SB1.SS20.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
13	Welding Brck. of SF ke SF	38.BS.SB1.SS20.Sb	0.5			0.133 x l	0.07	2	0.033	2.00
<b>JUMLAH</b>			20.48	0.1655					1.17	70.21
<b>TOTAL</b>			1.1278							
<b>SUB BLOCK 2 (PORT SIDE)</b>										
PANEL 4 SIDE										
<b>TOTAL</b>			1.13							
<b>SUB BLOCK 3 (DECK)</b>										
PANEL (9) DECK										
1	Lifting DP A-E	36-43.DP.SB3.SS20		1.31		0.537 x w	0.70	2	0.352	21.09
2	Fiting DP A ke B	36-43.DP.SB3.SS20	5.1			0.067 x l	0.34	2	0.171	10.25
3	Fiting DP B ke C	36-43.DP.SB3.SS20	5.1			0.067 x l	0.34	2	0.171	10.25
4	Fiting DP C ke D	36-43.DP.SB3.SS20	5.1			0.067 x l	0.34	2	0.171	10.25
5	Fiting DP D ke E	36-43.DP.SB3.SS20	5.1			0.067 x l	0.34	2	0.171	10.25
6	Welding DP A ke B	36-43.DP.SB3.SS20	10.2			0.133 x l	0.68	2	0.339	20.35
7	Welding DP B ke C	36-43.DP.SB3.SS20	10.2			0.133 x l	0.68	2	0.339	20.35
8	Welding DP C ke D	36-43.DP.SB3.SS20	10.2			0.133 x l	0.68	2	0.339	20.35
9	Welding DP D ke E	36-43.DP.SB3.SS20	10.2			0.133 x l	1.36	2	0.678	40.70
10	Liting Deck Tranverse SB & PS	43.DT.SB3.SS20.SB&PS		0.20		0.537 x w	0.11	2	0.054	3.23
11	Fiting DT SB ke DP	36.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
12	Fiting DT SB ke DP	37.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
13	Fiting DT SB ke DP	38.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
14	Fiting DT SB ke DP	39.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
15	Fiting DT SB ke DP	40.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
16	Fiting DT SB ke DP	41.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
17	Fiting DT SB ke DP	42.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
18	Fiting DT SB ke DP	43.DT.SB3.SS20.Sb	4.51			0.067 x l	0.30	2	0.151	9.07
19	Fiting DT PS ke DP	36.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
20	Fiting DT PS ke DP	37.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
21	Fiting DT PS ke DP	38.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
22	Fiting DT PS ke DP	39.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
23	Fiting DT PS ke DP	40.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
24	Fiting DT PS ke DP	41.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
25	Fiting DT PS ke DP	42.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
26	Fiting DT PS ke DP	43.DT.SB3.SS20.PS	4.51			0.067 x l	0.30	2	0.151	9.07
27	Welding DT SB ke DP	36.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
28	Welding DT SB ke DP	37.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
29	Welding DT SB ke DP	38.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
30	Welding DT SB ke DP	39.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
31	Welding DT SB ke DP	40.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
32	Welding DT SB ke DP	41.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
33	Welding DT SB ke DP	42.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
34	Welding DT SB ke DP	43.DT.SB3.SS20.Sb	9.02			0.133 x l	1.20	2	0.600	35.99
35	Welding DT PS ke DP	36.DT.SB3.SS20.PS	9.02			0.133 x l	1.20	2	0.600	35.99
36	Welding DT PS ke DP	37.DT.SB3.SS20.PS	9.02			0.133 x l	1.20	2	0.600	35.99
37	Welding DT PS ke DP	38.DT.SB3.SS20.PS	9.02			0.133 x l	1.20	2	0.600	35.99
38	Welding DT PS ke DP	39.DT.SB3.SS20.PS	9.02			0.133 x l	1.20	2	0.600	35.99
39	Welding DT PS ke DP	40.DT.SB3.SS20.PS	9.02			0.133 x l	1.20	2	0.600	35.99



NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
40	Welding DT PS ke DP	41.DT.SB3.SS20.PS	9.02		0.133 x l		1.20	2	0.600	35.99
41	Welding DT PS ke DP	42.DT.SB3.SS20.PS	9.02		0.133 x l		1.20	2	0.600	35.99
42	Welding DT PS ke DP	43.DT.SB3.SS20.PS	9.02		0.133 x l		1.20	2	0.600	35.99
43	Lifting Brck. of DT SB&PS	36-43.BDT.SB3.SS20.Sb&PS		0.032		0.537 x w	0.02	2	0.009	0.52
44	Fiting Brck. of DT SB ke DT	36-43.BDT.SB3.SS20.Sb	0.5		0.067 x l		0.03	2	0.017	1.01
45	Fiting Brck. of DT PS ke DT	36-43.BDT.SB3.SS20.PS	0.5		0.067 x l		0.03	2	0.017	1.01
46	Welding Brck. of DT SB ke DT	36-43.BDT.SB3.SS20.Sb	0.5		0.133 x l		0.07	2	0.033	2.00
47	Welding Brck. of DT PS ke DT	36-43.BDT.SB3.SS20.PS	0.5		0.133 x l		0.07	2	0.033	2.00
<b>JUMLAH</b>			279.68	1.54					14.91	894.46
<b>PANEL 5 BULKWARK</b>										
1	Lifting Bulwark	36-43.BL.SB1.SS20.Sb		0.167			0.09	2	0.045	2.70
2	Lifting Brck. of Bulwark	36-43.BBL.SB1.SS20.Sb		0.048		0.537 x w	0.03	2	0.013	0.78
3	Fiting Brck. of Bulwark	36-43.BBL.SB1.SS20.Sb	5.52		0.067 x l		0.37	2	0.185	11.10
4	Welding Brck. of Bulwark ke Bulkwark Plate	36-43.BBL.SB1.SS20.Sb	3.95		0.133 x l		0.53	2	0.263	15.77
5	Welding Brck. of Bulwark ke Brck. of Bulkwark	36-43.BBL.SB1.SS20.Sb	1.57				0.21	2	0.104	6.26
<b>JUMLAH</b>			11.04	0.22					0.61	36.59
<b>PANEL 6 BULKWARK</b>										
1	Lifting Bulwark	36-43.BL.SB2.SS20.PS		0.167			0.09	2	0.045	2.70
2	Lifting Brck. of Bulwark	36-43.BL.SB2.SS20.PS		0.048		0.537 x w	0.03	2	0.013	0.78
3	Fiting Brck. of Bulwark	36-43.BL.SB2.SS20.PS	5.52		0.067 x l		0.37	2	0.185	11.10
4	Welding Brck. of Bulwark ke Bulkwark Plate	36-43.BBL.SB2.SS20.PS	3.95		0.133 x l		0.53	2	0.263	15.77
5	Welding Brck. of Bulwark ke Brck. of Bulkwark	36-43.BBL.SB2.SS20.PS	1.57				0.21	2	0.104	6.26
<b>JUMLAH</b>			11.04	0.22					0.61	36.59





NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
		PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MINIT
<b>SUB BLOCK 1 (STARBOARD)</b>										
<b>TOTAL</b>		1.97								

<b>SUB BLOCK 1, PANEL 2</b>										
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA		
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			JAM	MINIT
1	Lifting BP A dan B	0.11					0.11	2		
2			Fiting BP A dan B	0.17			0.17	2		
3					Welding BP A dan B	0.68	0.68	2		
4	Lifting SF dan Brck. of SF	0.01					0.01	2		
5			Fiting SF ke BP	0.59			0.59	2		
6					Welding SF ke BP	0.12	0.12	2		
7			Fiting Brck. of SF ke SF	0.13			0.13	2		
8					Welding Brck. of SF ke SF	0.27	0.27	2		
<b>TOTAL</b>		0.12	0.89		1.06		2.08	6		

<b>PERAKITAN PANEL 1+7</b>										
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA		
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			JAM	MINIT
1	Lifting Panel 7 (Vert. Bulkhead)	0.04					0.04	2		
2			Fiting Panel 7 ke Panel 1 (Side)	0.07			0.07	2		
3					Welding BP ke SP	0.27	0.27	2		
<b>TOTAL</b>		0.04	0.07		0.27		0.39	6		

<b>PERAKITAN SUB-BLOCK 1 (STARBOARD)</b>										
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA		
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			JAM	MINIT



**PERAKITAN SUB-BLOCK 1 (STARBOARD)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 2 (Longi. Bulkhead)	0.13					0.13	2
2			Fiting Panel 2 ke Panel 7	0.07			0.07	2
3					Welding Longi. BP ke Vert. BP	0.27	0.27	2
	<b>TOTAL</b>	<b>0.13</b>		<b>0.07</b>		<b>0.27</b>	<b>0.47</b>	<b>6</b>

**SUB BLOCK 2, PANEL 3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.11					0.11	2
2			Fiting BP A dan B	0.17			0.17	2
3					Welding BP A dan B	0.68	0.68	2
4	Lifting SF dan Brck. of SF	0.01					0.01	2
5			Fiting SF ke BP	0.59			0.59	2
6					Welding SF ke BP	0.12	0.12	2
7			Fiting Brck. of SF ke SF	0.13			0.13	2
8					Welding Brck. of SF ke SF	0.27	0.27	2
	<b>TOTAL</b>	<b>0.12</b>		<b>0.89</b>		<b>1.06</b>	<b>2.08</b>	<b>6</b>

**PERAKITAN PANEL 4+8**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Panel 10	0.04					0.04	2
2			Fiting Panel 7 ke Panel 1 (Side)	0.07			0.07	2
3					Welding BP ke SP	0.27	0.27	2
	<b>TOTAL</b>	<b>0.04</b>		<b>0.07</b>		<b>0.27</b>	<b>0.39</b>	<b>6</b>



**PERAKITAN SUB-BLOCK 2 (PORT SIDE)**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
4	Lifting Panel 3	0.13					0.13	2
5			Fiting Panel 2 ke Panel 7	0.07			0.07	2
6					Welding Longi. BP ke Vert. BP	0.27	0.27	2
	<b>TOTAL</b>	0.13		0.07		0.27	0.47	6

**PERAKITAN SUB BLOK 1+2**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SB2 (PORT SIDE)	0.30					0.30	2

**SUB BLOK 3, PANEL 9**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A - E	0.35					0.35	2
2			Fiting DP A ke B	0.17			0.17	2
3			Fiting DP B ke C	0.17	Welding DP A ke B	0.34	0.34	4
4			Fiting DP C ke D	0.17	Welding DP B ke C	0.34	0.34	4
5			Fiting DP D ke E	0.17	Welding DP C ke D	0.34	0.34	4
6					Welding DP D ke E	0.68	0.68	4
7	Lifting DT SB & PS 26,27,28,29,30,31,32,34,35	0.05					0.05	2
8			Fiting Deck Tranverse SB ke DP	1.209			1.21	2
9			Fiting Deck Tranverse SB ke DP	1.209	Welding Deck Tranverse SB ke DP	4.799	4.80	4
10					Welding Deck Tranverse SB ke DP	4.80	4.80	2



**SUB BLOCK 3, PANEL 9**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
11	Lifting Brck. of Deck Tranverse SB&PS 26,27,28,29,30,31,32,34,35	0.009					0.01	2
12			Fiting Brck. of Deck Tranverse SB ke DT	0.017			0.02	2
13			Fiting Brck. of Deck Tranverse PS ke DT	0.017	Welding Brck. of Deck Tranverse SB ke DT	0.03	0.03	4
14					Welding Brck. of Deck Tranverse PS ke DT	0.03	0.03	2
	<b>TOTAL</b>	<b>0.41</b>		<b>3.13</b>		<b>11.36</b>	<b>13.17</b>	<b>6</b>

**PERAKITAN BLOK 20**

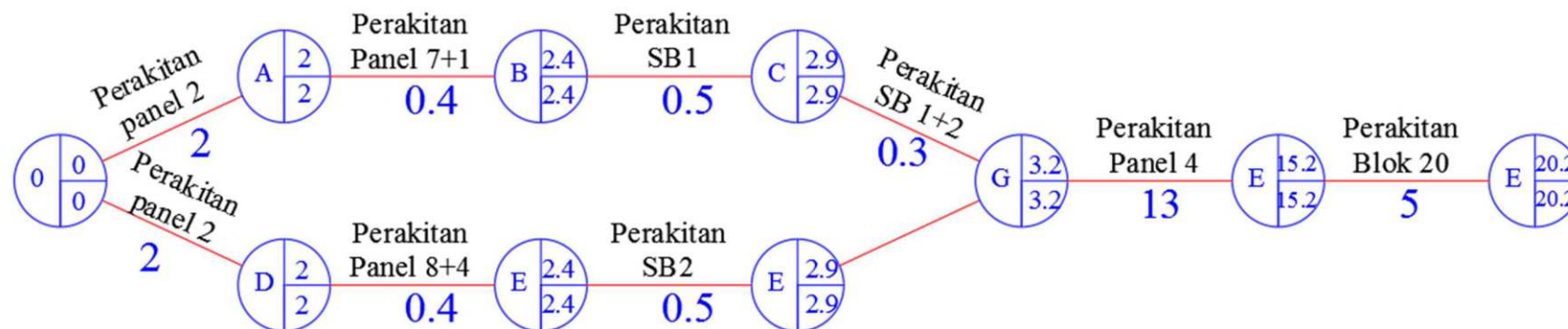
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SB3 (DECK)	0.53					0.53	2
2			Fiting SB3 ke SB1 dan SB2	1.07			1.07	2
3					Welding DP ke SP	1.36	1.36	2
4					Welding DP ke Longi. Bulkhead	1.36	1.36	2
5					Welding Brck. of SB1 ke SB3	0.27	0.27	2
6					Welding Brck. of SB2 ke SB3	0.27	0.27	2
7					Welding Bulkwark ke SP	0.24	0.24	2
	<b>TOTAL</b>	<b>0.53</b>		<b>1.07</b>		<b>3.48</b>	<b>5.08</b>	<b>6</b>



### BUNGAN KETERGANTUNGAN BLOK 20

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan panel 2	-	2	6	0.0	2.0	0.0	2.0	Ya
B	Perakitan panel 7+1	A	0.4	6	2.0	2.4	2.0	2.4	Ya
C	Perakitan sub blok 1	B	0.5	6	2.4	2.9	2.4	2.9	Ya
D	Perakitan panel 3	-	2	6	0.0	2.0	0.0	2.0	Ya
E	Perakitan panel 8+4	D	0.4	6	2.0	2.4	2.0	2.4	Ya
F	Perakitan sub blok 2	E	0.5	6	2.4	2.9	2.4	2.9	Ya
G	Perakitan SB 1+2	C,F	0.3	6	2.9	3.2	2.9	3.2	Ya
H	Perakitan panel 4	G	13	6	3.2	16.2	3.2	16.2	Ya
I	Perakitan blok 20	H	5	6	16.2	21.2	16.2	21.2	Ya

### C. JARINGAN KERJA BLOK 20





# BLOK 21



## A. PERHITUNGAN DAN PERAKITAN BLOK 21

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
<b>SUB BLOCK 1 (STARBOARD)</b>											
PANEL 1 SIDE											
1	Lifting SP A dan B	44 - 49.SP.SB1.SS21.Sb		0.279			0.537 x w	0.15	2	0.07	4.49
2	Fitting SP A ke B	45 - 49.SP.SB1.SS21.Sb	3.45			0.067 x l		0.23	2	0.12	6.94
3	Welding SP A dan B	47 - 49.SP.SB1.SS21.Sb	6.91		0.133 x l			0.92	2	0.46	27.55
4	Lifting MF 44,46,47,48,49	MF.SB1.SS21.Sb		0.029			0.537 x w	0.02	2	0.01	0.47
5	Fiting MF ke SP	44.MF.SB1.SS21.Sb	1.92			0.067 x l		0.13	2	0.06	3.87
6	Fiting MF ke SP	46.MF.SB1.SS21.Sb	1.92			0.067 x l		0.13	2	0.06	3.87
7	Fiting MF ke SP	47.MF.SB1.SS21.Sb	1.92			0.067 x l		0.13	2	0.06	3.87
8	Fiting MF ke SP	48.MF.SB1.SS21.Sb	1.92			0.067 x l		0.13	2	0.06	3.87
9	Fiting MF ke SP	49.MF.SB1.SS21.Sb	1.92			0.067 x l		0.13	2	0.06	3.87
10	Welding MF ke SP	44.MF.SB1.SS21.Sb	3.85		0.133 x l			0.51	2	0.26	15.35
11	Welding MF ke SP	46.MF.SB1.SS21.Sb	3.85		0.133 x l			0.51	2	0.26	15.35
12	Welding MF ke SP	47.MF.SB1.SS21.Sb	3.85		0.133 x l			0.51	2	0.26	15.35
13	Welding MF ke SP	48.MF.SB1.SS21.Sb	3.85		0.133 x l			0.51	2	0.26	15.35
14	Welding MF ke SP	49.MF.SB1.SS21.Sb	3.85		0.133 x l			0.51	2	0.26	15.35
15	Lifting Brck. of MF	BM.SB1.SS21.Sb		0.020			0.537 x w	0.01	2	0.01	0.32
16	Fiting Brck. of MF ke MF	44.BM.SB1.SS21.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
17	Fiting Brck. of MF ke MF	46.BM.SB1.SS21.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
18	Fiting Brck. of MF ke MF	47.BM.SB1.SS21.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
19	Fiting Brck. of MF ke MF	48.BM.SB1.SS21.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
20	Fiting Brck. of MF ke MF	49.BM.SB1.SS21.Sb	0.5			0.067 x l		0.03	2	0.02	1.01
21	Welding Brck. of MF ke MF	44.BM.SB1.SS21.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
22	Welding Brck. of MF ke MF	46.BM.SB1.SS21.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
23	Welding Brck. of MF ke MF	47.BM.SB1.SS21.Sb	0.5		0.133 x l			0.07	2	0.03	2.00



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
24	Welding Brck. of MF ke MF	48.BM.SB1.SS21.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
25	Welding Brck. of MF ke MF	49.BM.SB1.SS21.Sb	0.5		0.133 x l			0.07	2	0.03	2.00
<b>JUMLAH</b>			44.22	0.328						2.51	150.89
<b>SUB BLOCK 2 (PORT SIDE)</b>											
PANEL 2 SIDE											
1	Lifting SP A dan B	44 - 49.SP.SB2.SS21.PS		0.279			0.537 x w	0.15	2	0.07	4.49
2	Fitting SP A ke B	45 - 49.SP.SB2.SS21.PS	3.45			0.067 x l		0.23	2	0.12	6.94
3	Welding SP A dan B	47 - 49.SP.SB2.SS21.PS	6.91		0.133 x l			0.92	2	0.46	27.55
4	Lifting MF 44,46,47,48,49	MF.SB2.SS21.PS		0.029			0.537 x w	0.02	2	0.01	0.47
5	Fiting MF ke SP	44.MF.SB2.SS21.PS	1.92			0.067 x l		0.13	2	0.06	3.87
6	Fiting MF ke SP	46.MF.SB2.SS21.PS	1.92			0.067 x l		0.13	2	0.06	3.87
7	Fiting MF ke SP	47.MF.SB2.SS21.PS	1.92			0.067 x l		0.13	2	0.06	3.87
8	Fiting MF ke SP	48.MF.SB2.SS21.PS	1.92			0.067 x l		0.13	2	0.06	3.87
9	Fiting MF ke SP	49.MF.SB2.SS21.PS	1.92			0.067 x l		0.13	2	0.06	3.87
10	Welding MF ke SP	44.MF.SB2.SS21.PS	3.85		0.133 x l			0.51	2	0.26	15.35
11	Welding MF ke SP	46.MF.SB2.SS21.PS	3.85		0.133 x l			0.51	2	0.26	15.35
12	Welding MF ke SP	47.MF.SB2.SS21.PS	3.85		0.133 x l			0.51	2	0.26	15.35
13	Welding MF ke SP	48.MF.SB2.SS21.PS	3.85		0.133 x l			0.51	2	0.26	15.35
14	Welding MF ke SP	49.MF.SB2.SS21.PS	3.85		0.133 x l			0.51	2	0.26	15.35
15	Lifting Brck. of MF	BM.SB2.SS21.PS		0.020			0.537 x w	0.01	2	0.01	0.32
16	Fiting Brck. of MF ke MF	44.BM.SB2.SS21.PS	0.5			0.067 x l		0.03	2	0.02	1.01
17	Fiting Brck. of MF ke MF	46.BM.SB2.SS21.PS	0.5			0.067 x l		0.03	2	0.02	1.01
18	Fiting Brck. of MF ke MF	47.BM.SB2.SS21.PS	0.5			0.067 x l		0.03	2	0.02	1.01
19	Fiting Brck. of MF ke MF	48.BM.SB2.SS21.PS	0.5			0.067 x l		0.03	2	0.02	1.01
20	Fiting Brck. of MF ke MF	49.BM.SB2.SS21.PS	0.5			0.067 x l		0.03	2	0.02	1.01
21	Welding Brck. of MF ke MF	44.BM.SB2.SS21.PS	0.5		0.133 x l			0.07	2	0.03	2.00





NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
22	Welding Brck. of MF ke MF	46.BM.SB2.SS21.PS	0.5		0.133 x l			0.07	2	0.03	2.00
23	Welding Brck. of MF ke MF	47.BM.SB2.SS21.PS	0.5		0.133 x l			0.07	2	0.03	2.00
24	Welding Brck. of MF ke MF	48.BM.SB2.SS21.PS	0.5		0.133 x l			0.07	2	0.03	2.00
25	Welding Brck. of MF ke MF	49.BM.SB2.SS21.PS	0.5		0.133 x l			0.07	2	0.03	2.00
<b>JUMLAH</b>			44.22	0.328						2.51	150.89
<b>SUB BLOCK 3</b>											
PANEL 5 VERT. BULKHEAD											
1	Lifting BP A dan B	45.BHP.SB3.SS21		0.390			0.537 x w	0.21	2	0.10	6.29
2	Fiting BP A ke B	45.BHP.SB3.SS21	4.81			0.067 x l		0.32	2	0.16	9.67
3	Welding BP A dan B	45.BHP.SB3.SS21	9.62		0.133 x l			1.28	2	0.64	38.38
4	Lifting SF Fr 45 A-E	45.ST.SB3.SS21		0.029			0.537 x w	0.02	2	0.01	0.47
5	Fiting SF ke BP	45A.ST.SB3.SS21	1.92			0.067 x l		0.13	2	0.06	3.87
6	Fiting SF ke BP	45B.ST.SB3.SS21	1.92			0.067 x l		0.13	2	0.06	3.87
7	Fiting SF ke BP	45C.ST.SB3.SS21	1.92			0.067 x l		0.13	2	0.06	3.87
8	Fiting SF ke BP	45D.ST.SB3.SS21	1.92			0.067 x l		0.13	2	0.06	3.87
9	Fiting SF ke BP	45E.ST.SB3.SS21	1.92			0.067 x l		0.13	2	0.06	3.87
10	Welding SF ke BP	45A.ST.SB3.SS21	3.85		0.133 x l			0.51	2	0.26	15.35
11	Welding SF ke BP	45B.ST.SB3.SS21	3.85		0.133 x l			0.51	2	0.26	15.35
12	Welding SF ke BP	45C.ST.SB3.SS21	3.85		0.133 x l			0.51	2	0.26	15.35
13	Welding SF ke BP	45D.ST.SB3.SS21	3.85		0.133 x l			0.51	2	0.26	15.35
14	Welding SF ke BP	45E.ST.SB3.SS21	3.85		0.133 x l			0.51	2	0.26	15.35
15	Lifting Braacket of SF Fr 45 A-E	45.BS.SB3.SS21		0.020			0.537 x w	0.01	2	0.01	0.32
16	Fiting Braacket of SF ke SF	45A.BS.SB3.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
17	Fiting Braacket of SF ke SF	45B.BS.SB3.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
18	Fiting Braacket of SF ke SF	45C.BS.SB3.SS21	0.5			0.067 x l		0.03	2	0.02	1.01



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
19	Fiting Braacket of SF ke SF	45D.BS.SB3.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
20	Fiting Braacket of SF ke SF	45E.BS.SB3.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
21	Welding Braacket of SF ke SF	45A.BS.SB3.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
22	Welding Braacket of SF ke SF	45B.BS.SB3.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
23	Welding Braacket of SF ke SF	45C.BS.SB3.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
24	Welding Braacket of SF ke SF	45D.BS.SB3.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
25	Welding Braacket of SF ke SF	45E.BS.SB3.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
<b>JUMLAH</b>			48.29	0.43976						2.77	166.24
<b>SUB BLOCK 4</b>											
PANEL 6 VERT. BULKHEAD											
1	Lifting BP A dan B	50.BHP.SB4.SS21		0.446			0.537 x w	0.24	2	0.12	7.19
2	Fiting BP A ke B	50.BHP.SB4.SS21	4.81			0.067 x l		0.32	2	0.16	9.67
3	Welding BP A dan B	50.BHP.SB4.SS21	9.62		0.133 x l			1.28	2	0.64	38.38
4	Lifting SF Fr 50 A-B	50.ST.SB4.SS21		0.021			0.537 x w	0.01	2	0.01	0.33
5	Fiting SF ke BP	50A.ST.SB4.SS21	2.19			0.067 x l		0.15	2	0.07	4.41
6	Fiting SF ke BP	50B.ST.SB4.SS21	2.19			0.067 x l		0.29	2	0.15	8.82
7	Welding SF ke BP	50A.ST.SB4.SS21	4.39		0.133 x l			0.58	2	0.29	17.50
8	Welding SF ke BP	50B.ST.SB4.SS21	4.39		0.133 x l			0.58	2	0.29	17.50
9	Lifting Brck. of SF Fr 50 A-B	50.BS.SB4.SS21		0.008			0.537 x w	0.004	2	0.00	0.13
10	Fiting Brck. of SF ke SF	50A.BS.SB4.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
11	Fiting Brck. of SF ke SF	50B.BS.SB4.SS21	0.5			0.067 x l		0.03	2	0.02	1.01
12	Welding Brck. of SF ke SF	50A.BS.SB4.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
13	Welding Brck. of SF ke SF	50B.BS.SB4.SS21	0.5		0.133 x l			0.07	2	0.03	2.00
<b>JUMLAH</b>			29.59	0.47518						1.83	109.93
<b>SUB BLOCK 5</b>											
PANEL 8 DECK											



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MINIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
1	Lifting DP A-E	44-49.DP.SB5.SS21		1.002			0.537 x w	0.54	2	0.269	16.14
2	Fiting DP A ke B	44-49.DP.SB5.SS21	3.90			0.067 x l		0.26	2	0.131	7.85
3	Fiting DP B ke C	44-49.DP.SB5.SS21	3.90			0.067 x l		0.26	2	0.131	7.85
4	Fiting DP C ke D	44-49.DP.SB5.SS21	3.90			0.067 x l		0.26	2	0.131	7.85
5	Fiting DP D ke E	44-49.DP.SB5.SS21	3.90			0.067 x l		0.26	2	0.131	7.85
6	Welding DP A ke B	44-49.DP.SB5.SS21	7.81		0.133 x l			1.04	2	0.519	31.15
7	Welding DP B ke C	44-49.DP.SB5.SS21	7.81		0.133 x l			1.04	2	0.519	31.15
8	Welding DP C ke D	44-49.DP.SB5.SS21	7.81		0.133 x l			1.04	2	0.519	31.15
9	Welding DP D ke E	44-49.DP.SB5.SS21	7.81		0.133 x l			1.04	2	0.519	31.15
10	Lifting DL Sb dan PS	45-49.LTDB.SB5.SS21.Sb & PS		0.069			0.537 x w	0.04	2	0.018	1.11
11	Fiting DL ke DP	45-49.LTDB.SB5.SS21.Sb	0.32			0.067 x l		0.02	2	0.011	0.64
12	Fiting DL ke DP	45-49.LTDB.SB5.SS21.PS	0.32			0.067 x l		0.02	2	0.011	0.64
13	Welding DL ke DP	45-49.LTDB.SB5.SS21.Sb	0.32		0.133 x l			0.04	2	0.021	1.26
14	Welding DL ke DP	45-49.LTDB.SB5.SS21.PS	0.32		0.133 x l			0.04	2	0.021	1.26
15	Lifting DT 44,46,47,48,49 SB&PS	BTDB.SB5.SS21.Sb&PS		0.118			0.537 x w	0.06	2	0.032	1.89
16	Fiting DT SB ke DP	44.DT.SB5.SS21.Sb	4.51			0.067 x l		0.30	2	0.151	9.07
17	Fiting DT SB ke DP	46.DT.SB5.SS21.Sb	4.51			0.067 x l		0.30	2	0.151	9.07
18	Fiting DT SB ke DP	47.DT.SB5.SS21.Sb	1.15			0.067 x l		0.08	2	0.039	2.31
19	Fiting DT SB ke DP	48.DT.SB5.SS21.Sb	4.51			0.067 x l		0.30	2	0.151	9.07
20	Fiting DT SB ke DP	49.DT.SB5.SS21.Sb	4.51			0.067 x l		0.30	2	0.151	9.07
21	Fiting DT PS ke DP	44.DT.SB5.SS21.PS	4.51			0.067 x l		0.30	2	0.151	9.07
22	Fiting DT PS ke DP	46.DT.SB5.SS21.PS	4.51			0.067 x l		0.30	2	0.151	9.07
23	Fiting DT PS ke DP	47.DT.SB5.SS21.PS	1.15			0.067 x l		0.08	2	0.039	2.31
24	Fiting DT PS ke DP	48.DT.SB5.SS21.PS	4.51			0.067 x l		0.30	2	0.151	9.07



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
25	Fiting DT PS ke DP	49.DT.SB5.SS21.PS	4.51			0.067 x l		0.30	2	0.151	9.07
26	Welding DT SB ke DP	44.DT.SB5.SS21.Sb	9.02		0.133 x l			1.20	2	0.600	35.99
27	Welding DT SB ke DP	46.DT.SB5.SS21.Sb	9.02		0.133 x l			1.20	2	0.600	35.99
28	Welding DT SB ke DP	47.DT.SB5.SS21.Sb	2.3		0.133 x l			0.31	2	0.153	9.18
29	Welding DT SB ke DP	48.DT.SB5.SS21.Sb	9.02		0.133 x l			1.20	2	0.600	35.99
30	Welding DT SB ke DP	49.DT.SB5.SS21.Sb	9.02		0.133 x l			1.20	2	0.600	35.99
31	Welding DT PS ke DP	44.DT.SB5.SS21.PS	9.02		0.133 x l			1.20	2	0.600	35.99
32	Welding DT PS ke DP	46.DT.SB5.SS21.PS	9.02		0.133 x l			1.20	2	0.600	35.99
33	Welding DT PS ke DP	47.DT.SB5.SS21.PS	2.3		0.133 x l			0.31	2	0.153	9.18
34	Welding DT PS ke DP	48.DT.SB5.SS21.PS	9.02		0.133 x l			1.20	2	0.600	35.99
35	Welding DT PS ke DP	49.DT.SB5.SS21.PS	9.02		0.133 x l			1.20	2	0.600	35.99
36	Lifting Brck. of DT Sb dan PS	44-49.BDT.SB5.SS21.Sb dan PS		0.036			0.537 x w	0.02	2	0.010	0.58
37	Fiting Brck. of DT Sb dan PS	44-49.BDT.SB5.SS21.Sb dan PS	4.5			0.067 x l		0.30	2	0.151	9.05
38	Welding Brck. of DT Sb dan PS	44-49.BDT.SB5.SS21.Sb dan PS	9		0.133 x l			1.20	2	0.599	35.91
<b>JUMLAH</b>			176.74	1.2244						10.13	607.86
PANEL 3 BULWARK											
1	Lifting Bulwark	44 - 49.BL.SB1.SS21.Sb		0.128			0.537 x w	0.07	2	0.034	2.06
2	Lifting Brck. of Bulwark	44 - 49.BBL.SB1.SS21.Sb		0.036				0.02	2	0.010	0.58
3	Fiting Brck. of Bulwark	45 - 49.BBL.SB1.SS21.Sb	4.14			0.067 x l		0.28	2	0.139	8.32
4	Welding Brck. of Bulwark ke Bulkwark Plate	46 - 49.BBL.SB1.SS21.Sb	2.96		0.133 x l			0.39	2	0.197	11.83
5	Welding Brck. of Bulwark ke Brck. of Bulkwark	47 - 49.BBL.SB1.SS21.Sb	1.18					0.16	2	0.078	4.69



NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENIT
<b>JUMLAH</b>			8.28	0.16					0.46	27.48	
PANEL 4 BULWARK											
1	Lifting Bulwark	44 - 49.BL.SB2.SS21.PS		0.128			0.537 x w	0.07	2	0.034	2.06
2	Lifting Brck. of Bulwark	45 - 49.BL.SB2.SS21.PS		0.036				0.02	2	0.010	0.58
3	Fiting Brck. of Bulwark	46 - 49.BL.SB2.SS21.PS	4.14			0.067 x l		0.28	2	0.139	8.32
4	Welding Brck. of Bulwark ke Bulkward Plate	44 - 49.BBL.SB2.SS21.PS	2.96		0.133 x l			0.39	2	0.197	11.83
5	Welding Brck. of Bulwark ke Brck. of Bulkward	45 - 49.BBL.SB2.SS21.PS	1.18					0.16	2	0.078	4.69
<b>JUMLAH</b>			8.28	0.16						0.46	27.48
PANEL 7 BULWARK											
1	Lifting Bulwark	50.BL.SB4.SS21		0.214			0.537 x w	0.11	2	0.06	3.44
2	Lifting Brck. of Bulwark	50.BL.SB4.SS21		0.028				0.01	2	0.01	0.45
3	Fiting Brck. of Bulwark	50.BL.SB4.SS21	0.49			0.067 x l		0.03	2	0.02	0.99
4	Welding Brck. of Bulwark ke Bulkward Plate	50.BBL.SB4.SS21	2.96		0.133 x l			0.39	2	0.20	11.83
<b>JUMLAH</b>			3.46	0.24						0.28	16.71
<b>TOTAL</b>					1.79409						

SUB BLOCK 1, PANEL 1									
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA	
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI			
1	Lifting SP A dan B	0.075					0.075	2	
2			Fitting SP A ke B	0.116			0.116	2	
3					Welding SP A dan B	0.459	0.459	2	
4	Lifting MF & Bracket	0.008					0.008	2	



5		Fiting MF ke SP	0.32		0.322	2	
6				Welding MF ke SP	1.28	1.279	2
7		Fiting Brck. of MF ke MF	0.08		0.084	2	
8				Welding Brck. of MF ke MF	0.17	0.166	2
<b>TOTAL</b>		0.08	0.52		1.90	2.51	6

**SUB BLOCK 3, PANEL 5**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.105					0.105	2
2			Fiting BP A ke B	0.161			0.161	2
3					Welding BP A dan B	0.640	0.640	2
4	Lifting SF & Bracket	0.008					0.008	2
5			Fiting MF ke SP	0.32			0.322	2
6					Welding MF ke SP	1.28	1.279	2
7			Fiting Brck. of MF ke MF	0.08			0.084	2
8					Welding Brck. of MF ke MF	0.17	0.166	2
<b>TOTAL</b>		0.11		0.57		2.09	2.77	6

**PERAKITAN SUB BLOK 1+3**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Liftig Sub Block 3	0.08					0.08	2
2			Fiting SB 3 ke SB 1 (STARBOARD)	0.07			0.07	2
3					Welding BP ke SP	0.54	0.54	2
<b>TOTAL</b>		0.08		0.07		0.54	0.68	6



SUB BLOCK 2, PANEL 2								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting SP A dan B	0.075					0.075	2
2			Fitting SP A ke B	0.116			0.116	2
3					Welding SP A dan B	0.459	0.459	2
4	Lifting MF & Bracket	0.008					0.008	2
5			Fiting MF ke SP	0.322			0.322	2
6					Welding MF ke SP	1.279	1.279	2
7			Fiting Brck. of MF ke MF	0.084			0.084	2
8					Welding Brck. of MF ke MF	0.166	0.166	2
	<b>TOTAL</b>	<b>0.08</b>		<b>0.52</b>		<b>1.90</b>	<b>2.51</b>	<b>6</b>

PERAKITAN SUB BLOK 1+3+2								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 2	0.06					0.06	2
2			Fiting SB 2 ke SB 3 dan SB 4	0.14			0.14	2
3					Welding SP Ke BP	1.08	1.08	2
	<b>TOTAL</b>	<b>0.06</b>		<b>0.14</b>		<b>1.08</b>	<b>1.27</b>	<b>6</b>

SUB BLOCK 4, PANEL 6								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting BP A dan B	0.120					0.120	2
2			Fiting BP A ke B	0.161			0.161	2
3					Welding BP A dan B	0.640	0.640	2
4	Lifting SF & Bracket	0.006					0.006	2
5			Fiting SF ke BP	0.22			0.220	1



6				Welding SF ke BP	0.58	0.583	1	
7			Fiting Brck. of SF ke SF	0.03		0.034	1	
8				Welding Brck. of SF ke SF	0.07	0.067	1	
<b>TOTAL</b>		0.13			0.42	1.29	1.83	12

**PERAKITAN SUB BLOK 1+3+2+4**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 4	0.09					0.09	2
2			Fiting SB 4 ke SB 1 (STARBOARD)	0.07			0.07	2
3					Welding BP ke SP	0.54	0.54	2
<b>TOTAL</b>		0.09		0.07		0.54	0.69	6

**SUB BLOK 5, PANEL 8**

NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting DP A-E	0.269					0.269	2
2			Fiting DP A ke B	0.131			0.131	2
3			Fiting DP B ke C	0.131	Welding DP A ke B	0.519	0.519	4
4			Fiting DP C ke D	0.131	Welding DP B ke C	0.519	0.519	4
5			Fiting DP D ke E	0.131	Welding DP C ke D	0.519	0.519	4
6					Welding DP D ke E	0.519	0.519	2
7	Lifting DL Sb dan PS	0.018					0.018	2
8			Fiting DL ke DP	0.02			0.02	2
9					Fiting DL ke DP	0.04	0.04	2
10	Lifting DT 44,46,47,48,49 SB&PS	0.032					0.032	2





SUB BLOCK 5, PANEL 8								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
11			Fiting DT SB ke DP	0.64			0.64	2
12			Fiting DT SB ke DP	0.64	Welding DT SB ke DP	2.55	0.64	2
13					Welding DT SB ke DP	2.55	2.55	2
14	Lifting Brck. of DT Sb dan PS	0.010					0.010	2
15			Fiting Brck. of DT Sb dan PS	0.151			0.151	2
16					Welding Brck. of DT Sb dan PS	0.599	0.599	2
	<b>TOTAL</b>	<b>0.33</b>		<b>1.98</b>		<b>7.82</b>	<b>7.19</b>	<b>6</b>

PERAKITAN BLOK 21								
NO	LIFTING		FITTING		WELDING		DURASI REAL	TENAGA KERJA
	KEGIATAN	DURASI	KEGIATAN	DURASI	KEGIATAN	DURASI		
1	Lifting Sub Block 5	0.32					0.32	2
2			Fiting SB 5 ke SB 1, 2, 3, 4	0.75			0.75	2
3					Welding DP ke SP	2.12	2.12	2
4					Welding DP ke BP	2.56	2.56	2
5					Welding Brck. of SB 1 dan SB 2 ke SB 5	0.33	0.33	2
6					Welding Brck. of SB 3 dan SB 4 ke SB 5	0.33	0.33	2
	<b>TOTAL</b>	<b>0.32</b>		<b>0.75</b>		<b>5.35</b>	<b>6.42</b>	<b>6</b>



### B. HUBUNGAN KETERGANTUNGAN BLOK 21

Urutan	Nama Kegiatan	Kegiatan Sebelumnya	Durasi	Tenaga Kerja	ES	EF	LS	LF	Kritis
A	Perakitan SB 1	-	3	6	0	3	0	3	Ya
B	Perakitan SB 3	A	3	6	3	6	3	6	Ya
C	Perakitan SB 1+3	B	1	6	6	7	6	7	Ya
D	Perakitan SB 2	C	3	6	7	10	7	10	Ya
E	Perakitan SB 1+3+2	D	1	6	10	11	10	11	Ya
F	Perakitan SB 4	E	2	6	11	13	11	13	Ya
G	Perakitan SB 1+3+2+4	F	1	6	13	14	13	14	Ya
H	Perakitan SB 5	G	7	6	14	21	14	21	Ya
I	Perakitan blok 21	H	6	6	21	27	21	27	Ya

### C. JARINGAN KERJA BLOK 21

