

## DAFTAR PUSTAKA

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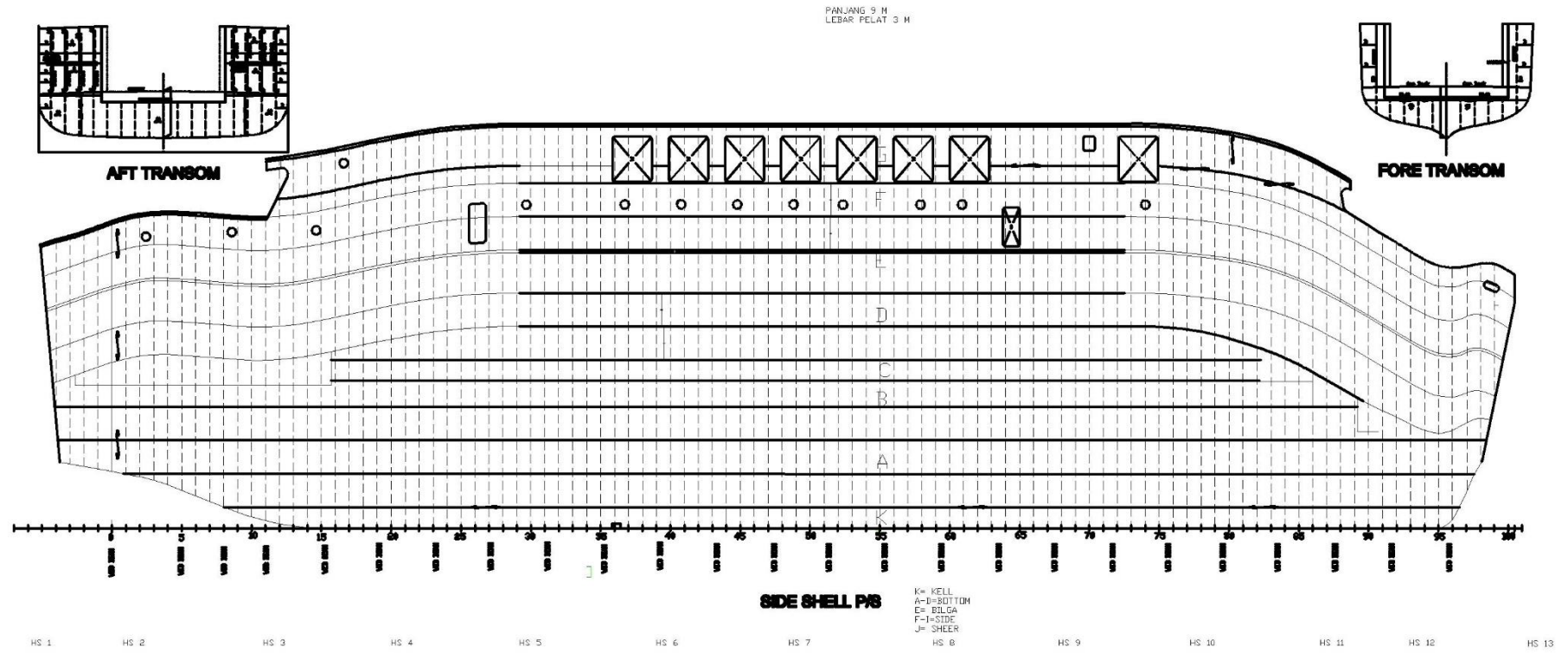
Y. Okayama, L. D. Chirillo. 1982. *The National Shipbuilding Research Program  
Product Work Breakdown Structure*. Proceeding NSRP.



# LAMPIRAN



# Lampiran 1 (Shell Expansion)

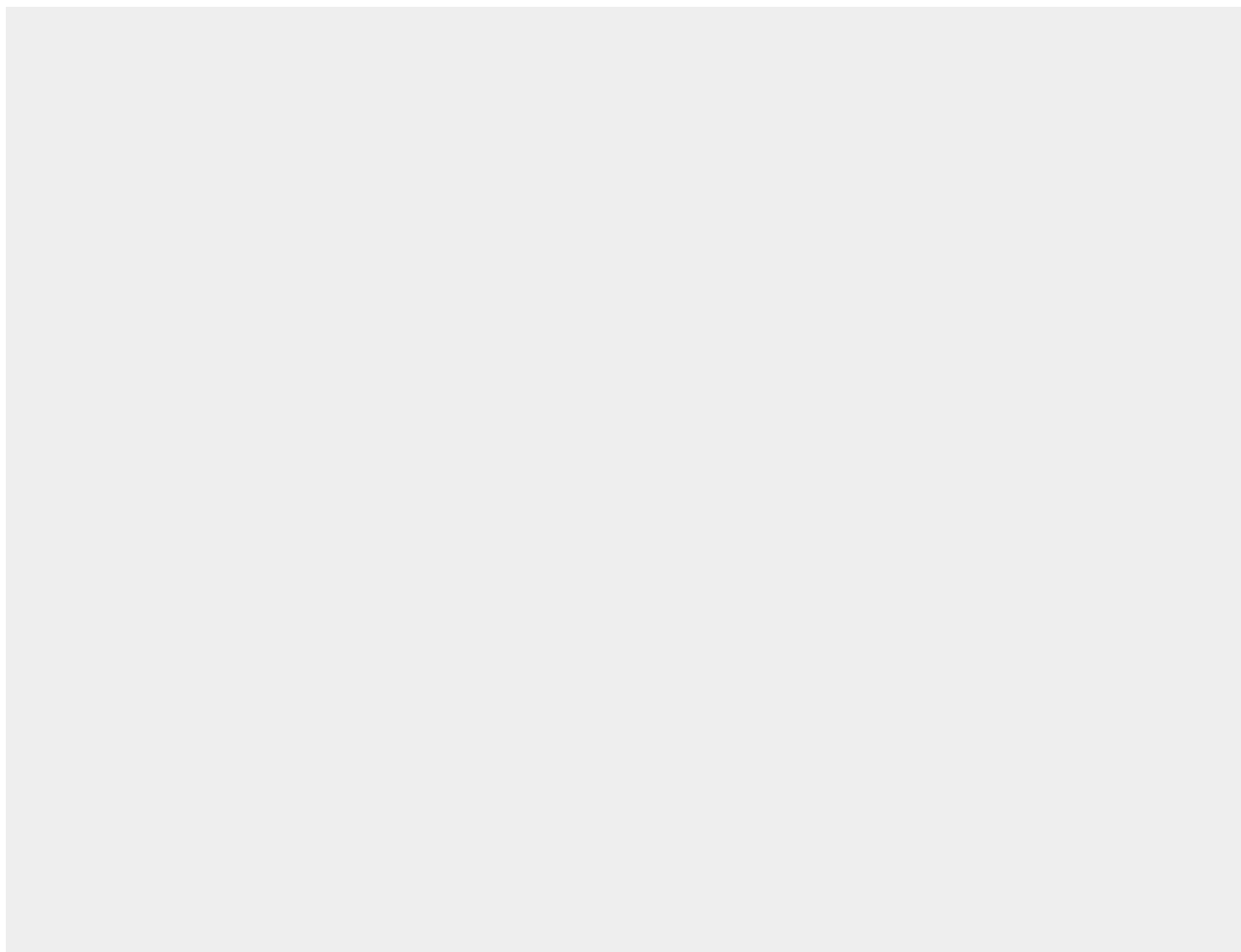


PANJANG SELURUH	LOA	: 90,00 M
PANJANG GARIS TEGAK	LBP	: 40,00 M
L E B A R	B	: 6,6 M
TINGGI GELADAK	D	: 3,0 M
TINGGI SARAT	T	: 2,7 M
AWAK KAPAL		: 20 ORANG
PENUMPANG		: 100 ORANG
KENDARAAN		: 10 Truck 0 ton + 10 Sedan
MESIN INDUK	HP	: 2 x 1100 HP
KECEPATAN SERVIS	VB	: 11 Knot

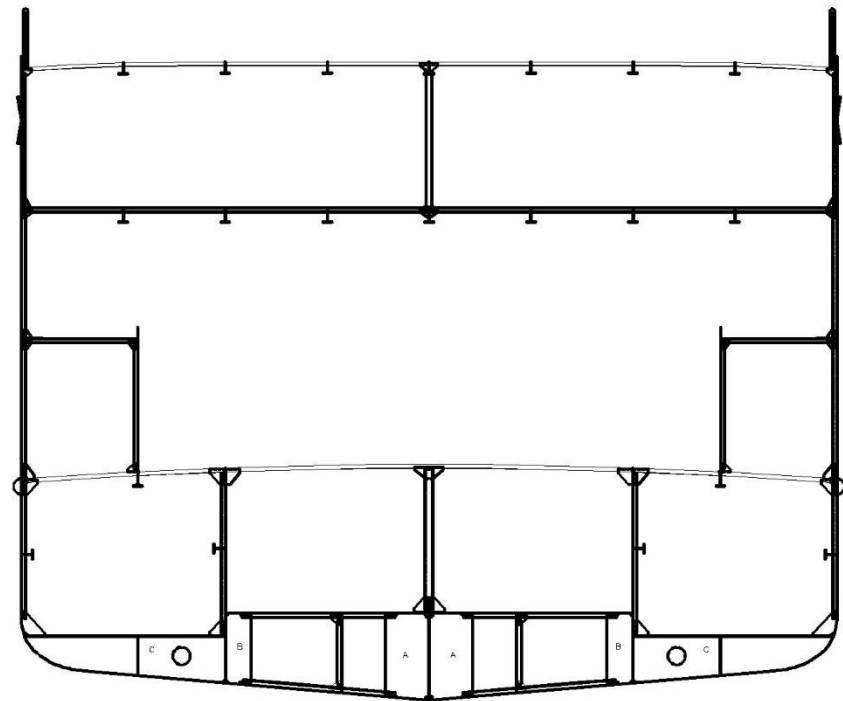
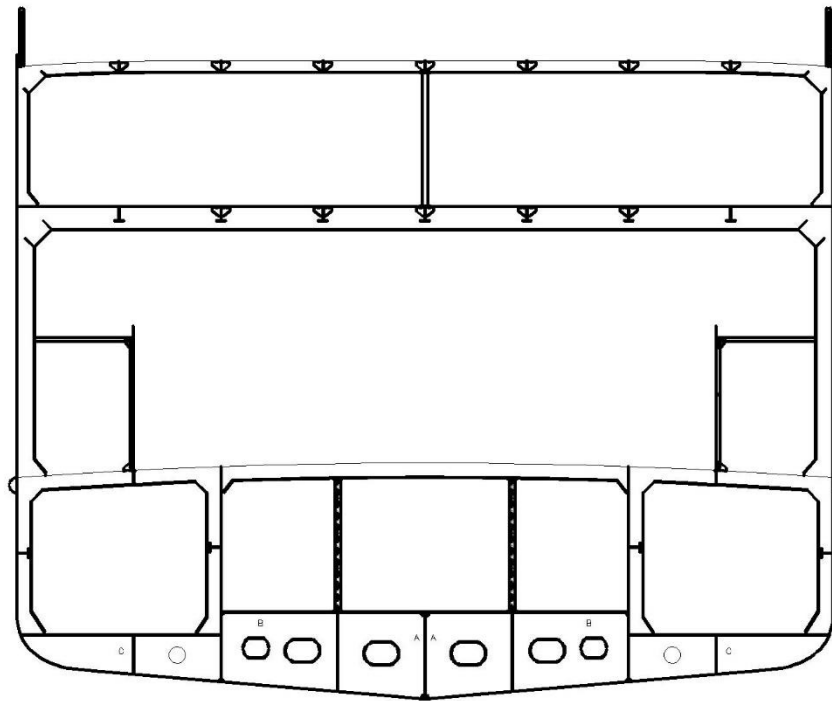



Optimization Software:  
[www.balesio.com](http://www.balesio.com)

## Lampiran 2 (*General Arrangement*)

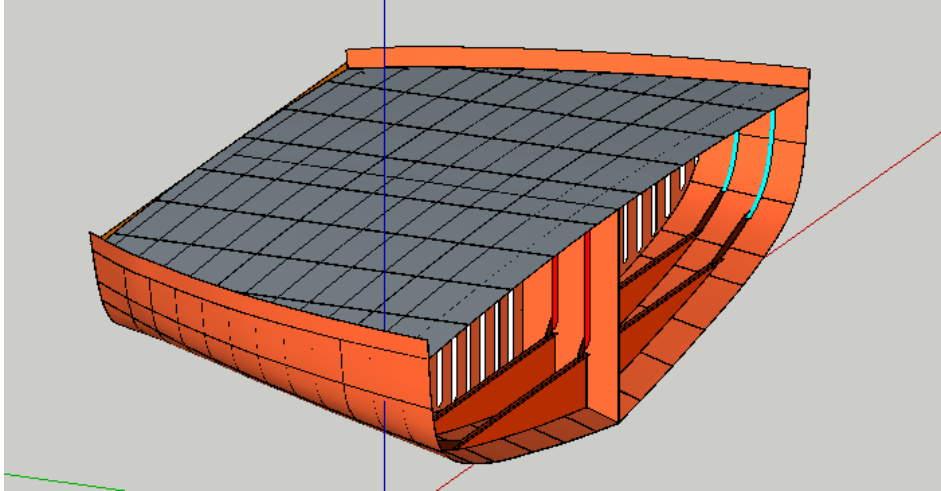


### Lampiran 3 (Midship Section)

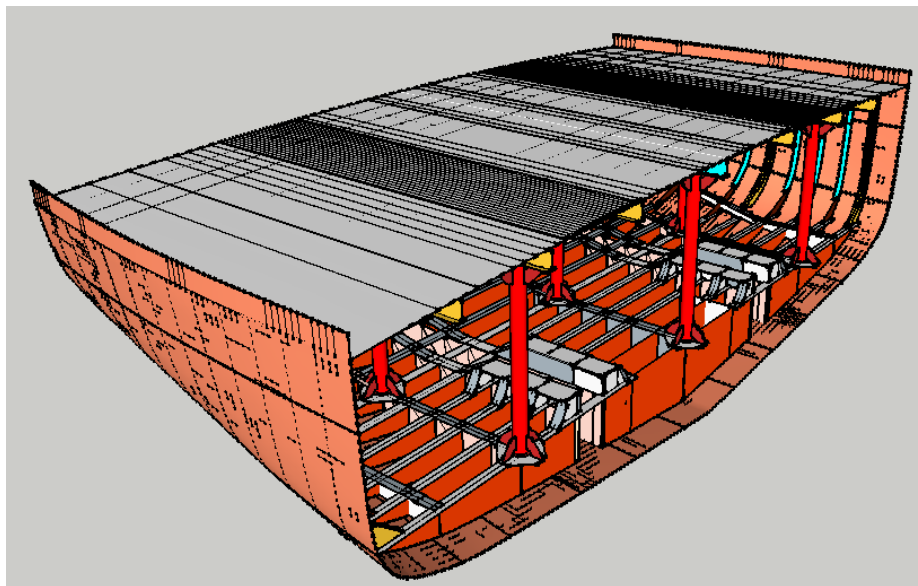


## Lampiran 5 (Blok Lambung 3D)

HS1

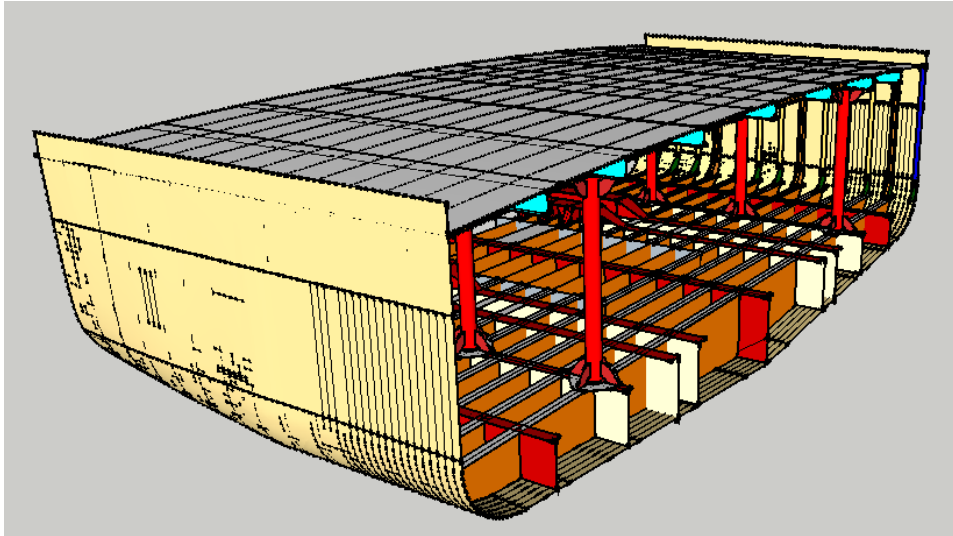


HS2

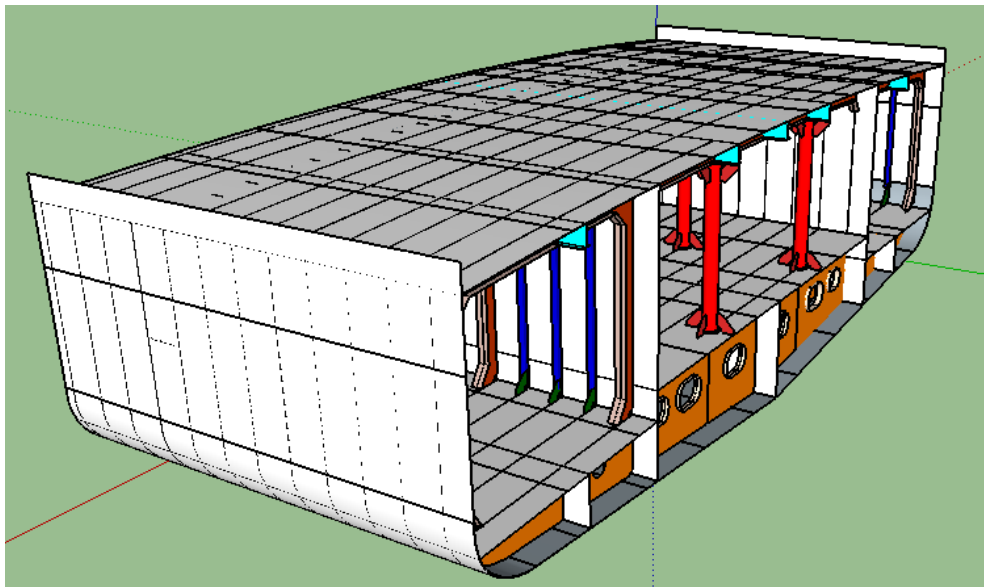


Optimization Software:  
[www.balesio.com](http://www.balesio.com)

### HS33



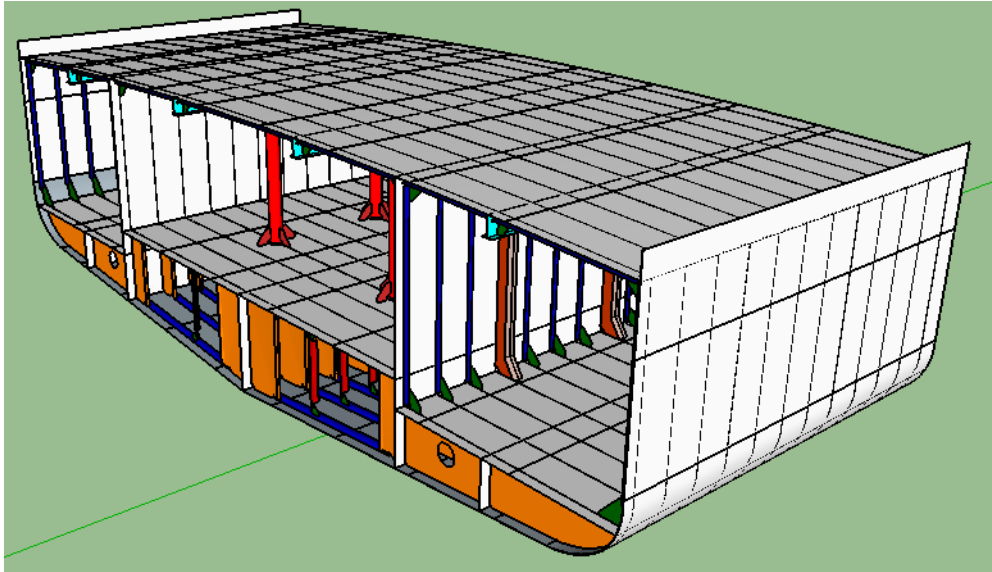
### HS4



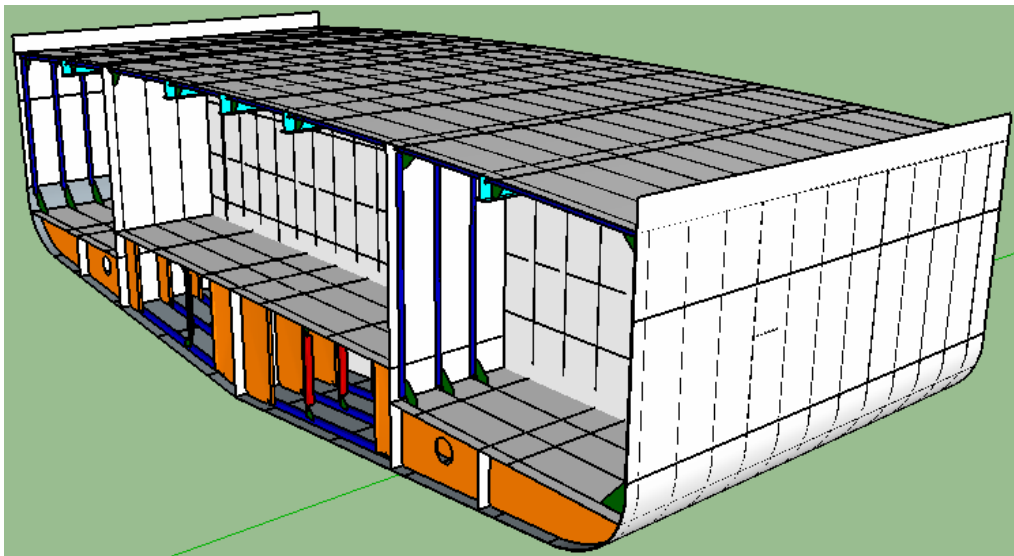
Optimization Software:  
[www.balesio.com](http://www.balesio.com)



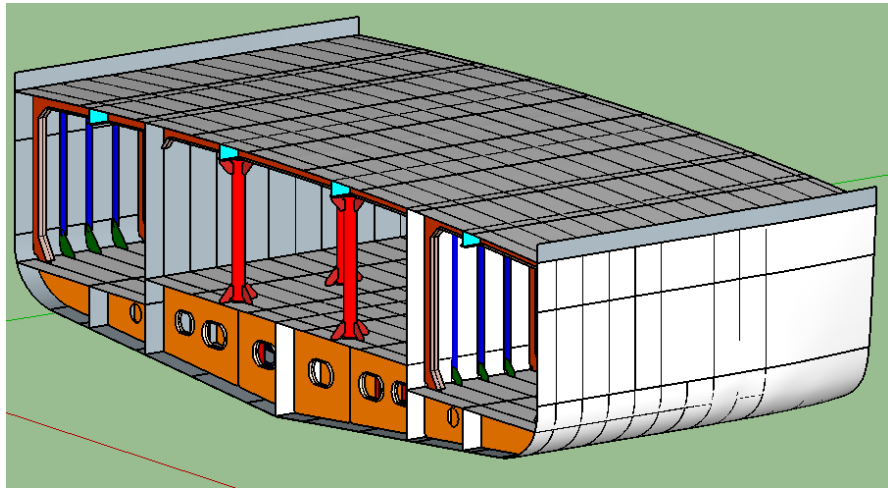
HS5



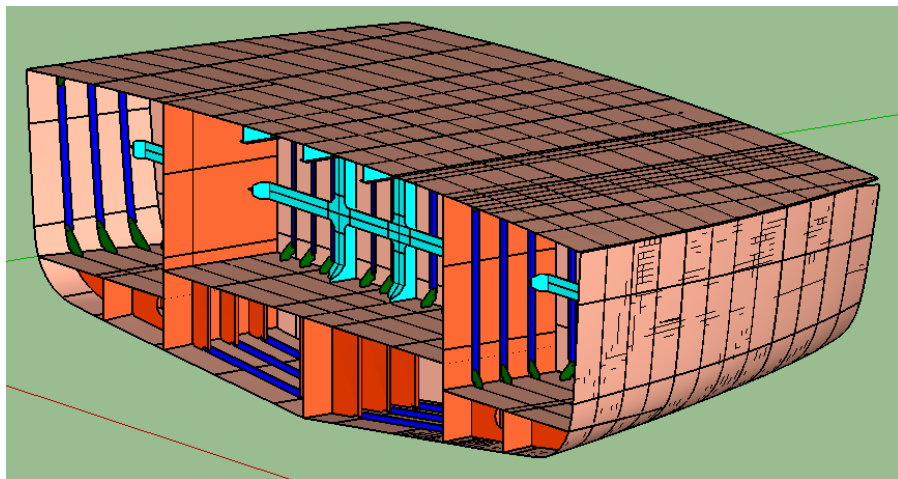
HS6



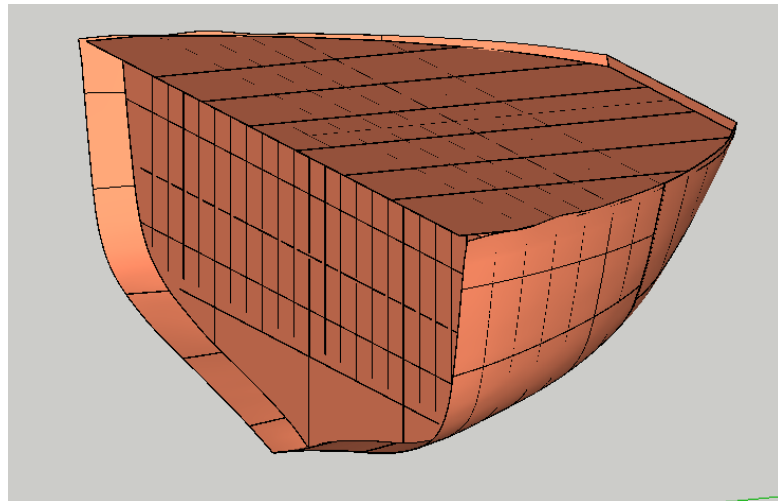
HS7



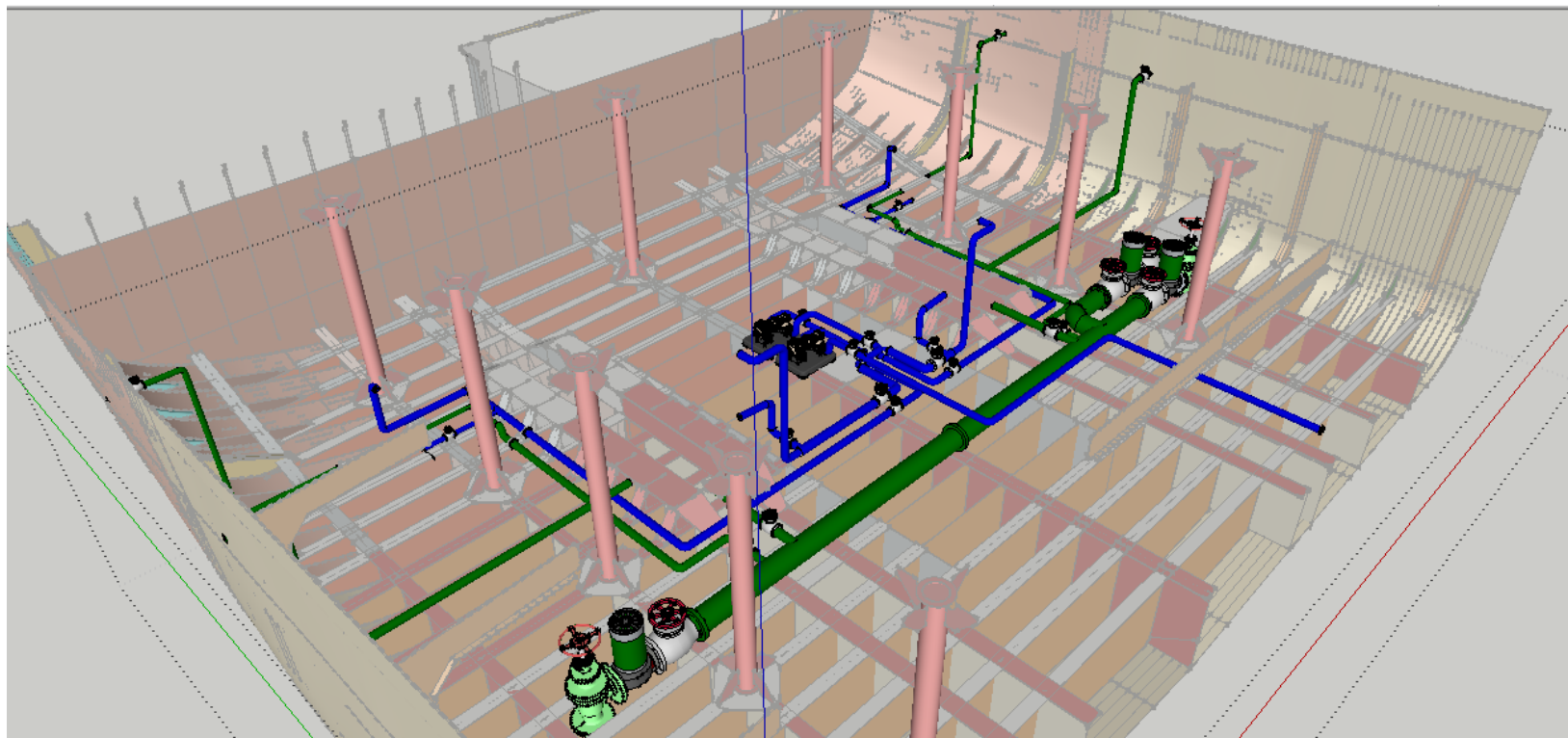
HS8



HS9

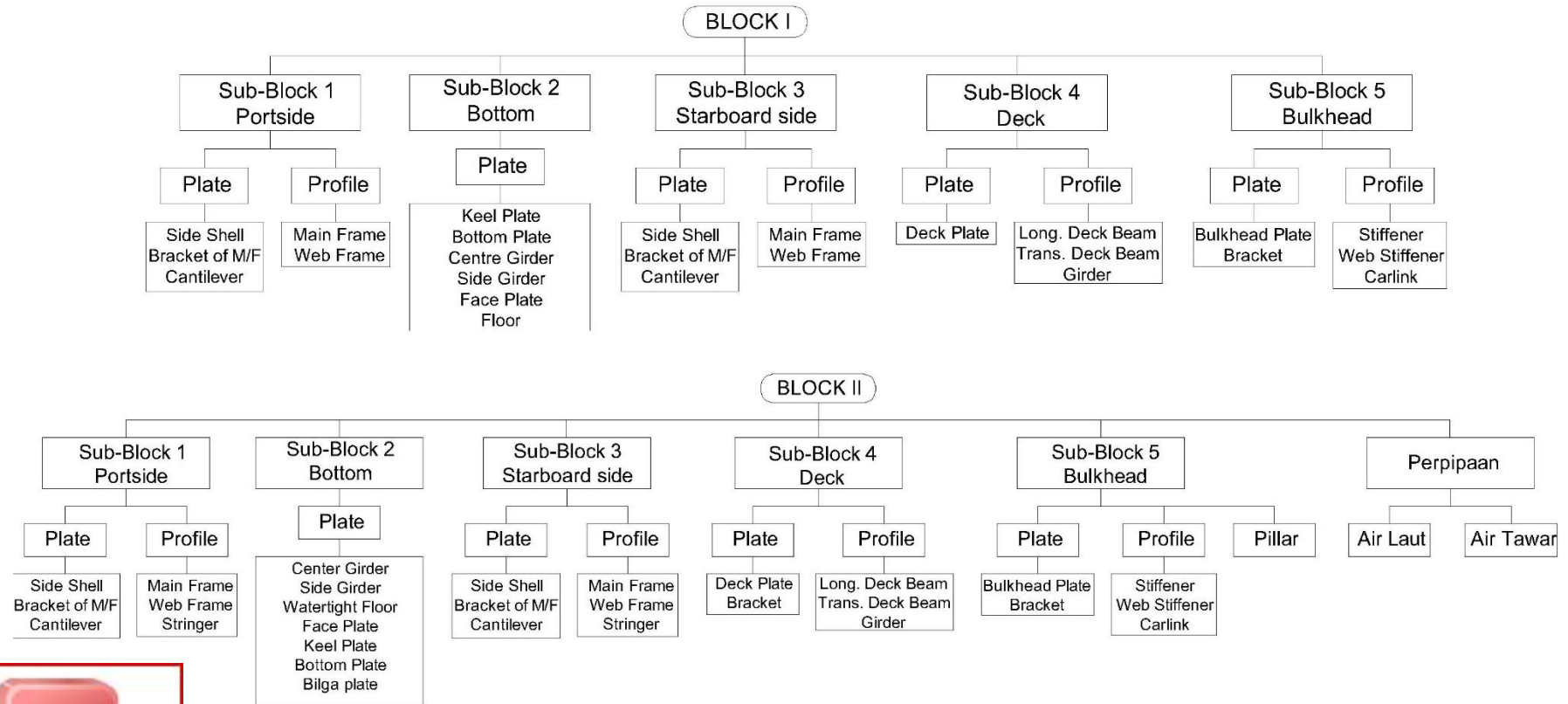


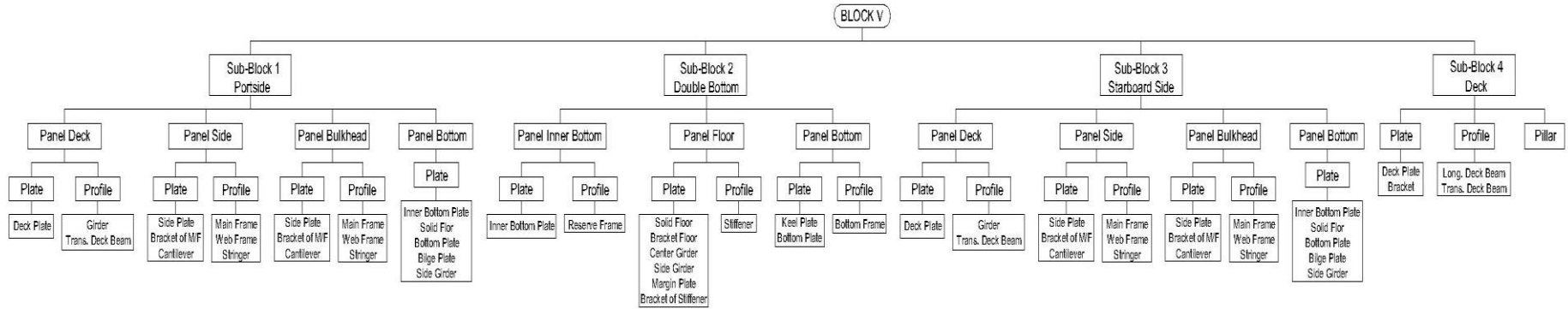
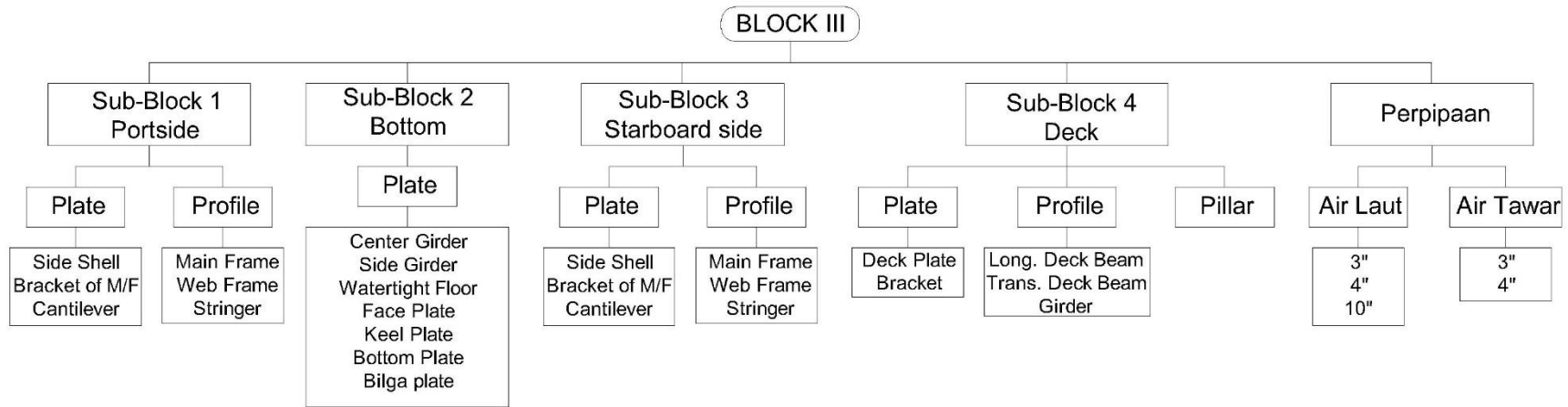
## Lampiran 6 (Pipa 3D)



Optimization Software:  
[www.balesio.com](http://www.balesio.com)

## Lampiran 7 (Product Work Breakdown Structure)

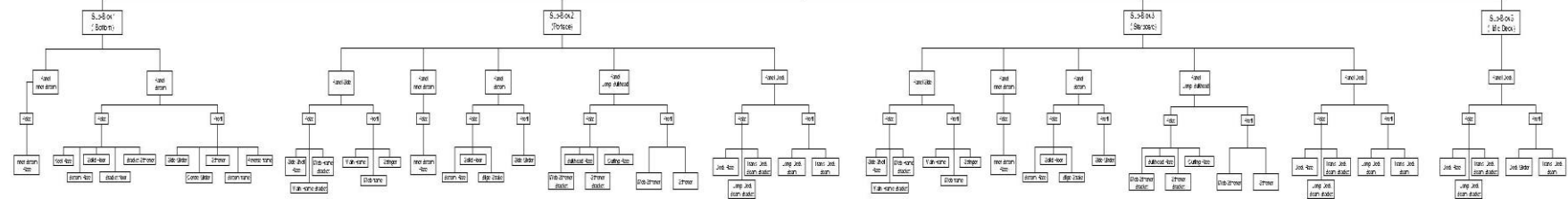




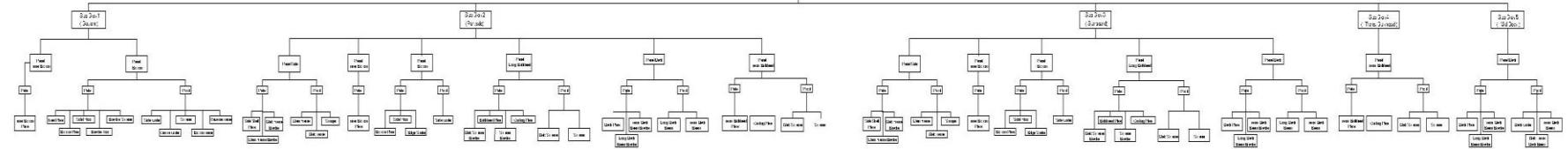


Optimization Software:  
[www.balesio.com](http://www.balesio.com)

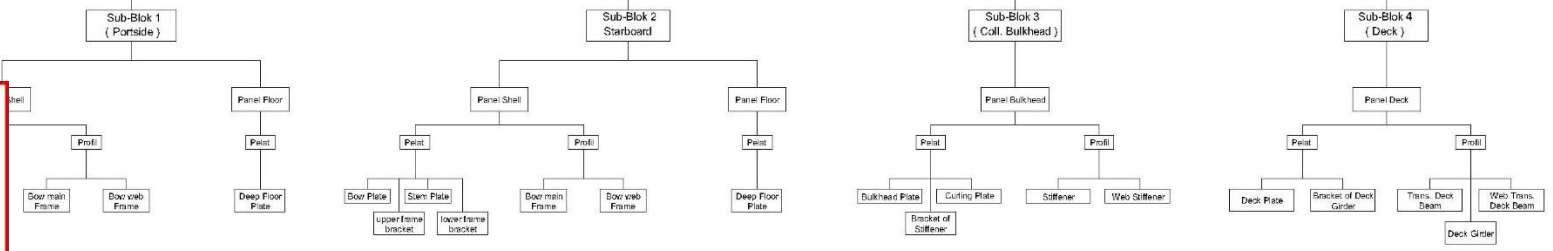
BLOK VII



BLOK VI



BLOK IX



**PDF**

Optimization Software:  
[www.balesio.com](http://www.balesio.com)

## Lampiran 8

PERHITUNGAN DURASI PERAKITAN BLOK 1											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	<b>Sub-Block 1 (Panel Portside)</b>	1	2,00		3,00			4=2*3	5	6=4/5	7=6*60
1	Lifting Pelat A	(-4)-(8).SP.Sb1.HS1.PS		0,38			0,537	0,21	2	0,10	6,17
2	Lifting Pelat B	(-4)-(8).SP.Sb1.HS1.PS		0,26			0,537	0,14	2	0,07	4,12
3	Fitting Pelat A dan pelat B	(-4)-(8).SP.Sb1.HS1.PS	6,00			0,067		0,40	1	0,40	24,12
4	Welding Joint pelat A dan pelat B	(-4)-(8).SP.Sb1.HS1.PS	12,00		0,133			1,60	1	1,60	95,76
5	Lifting Frame ke Side Plate	(-4).MF.Sb1.HS1.PS		0,02				0,01	2	0,01	0,32
6		(-3).MF.Sb1.HS1.PS		0,02				0,01		0,01	0,34
7		(-2).MF.Sb1.HS1.PS		0,02				0,01		0,01	0,36
8		(-1).MF.Sb1.HS1.PS		0,02				0,01		0,01	0,37
9		0.WF.Sb1.HS1.PS		0,07				0,04		0,02	1,13
10		(1).MF.Sb1.HS1.PS		0,02				0,01		0,01	0,39
11		(2).MF.Sb1.HS1.PS		0,02				0,01		0,01	0,40
12		(3).MF.Sb1.HS1.PS		0,03				0,01		0,01	0,42
13		(4).MF.Sb1.HS1.PS		0,03				0,01		0,01	0,43
14		(6).MF.Sb1.HS1.PS		0,03				0,01		0,01	0,43
15		(7).MF.Sb1.HS1.PS		0,03				0,01		0,01	0,43
16		Fitting Frame ke Side Plate	(-4).MF.Sb1.HS1.PS	0,90						0,06	2
17	(-3).MF.Sb1.HS1.PS		0,86					0,06	0,03	1,72	
18	(-2).MF.Sb1.HS1.PS		0,88					0,06	0,03	1,77	
19	(-1).MF.Sb1.HS1.PS		0,94					0,06	0,03	1,90	
20	0.WF.Sb1.HS1.PS		4,26					0,29	0,14	8,57	
21	(1).MF.Sb1.HS1.PS		1,10			0,067		0,07	0,04	2,21	
22	(2).MF.Sb1.HS1.PS		1,20					0,08	0,04	2,42	
23	(3).MF.Sb1.HS1.PS		1,29					0,09	0,04	2,59	
24	(4).MF.Sb1.HS1.PS		1,31					0,09	0,04	2,63	
25	(6).MF.Sb1.HS1.PS		1,66					0,11	0,06	3,33	
26	(7).MF.Sb1.HS1.PS		2,13					0,14	0,07	4,28	
27	Welding Frame ke Side Plate		(-4).MF.Sb1.HS1.PS	0,90		0,133			0,12	1	
28		(-3).MF.Sb1.HS1.PS	0,86					0,11	0,11		6,84
29		(-2).MF.Sb1.HS1.PS	0,88					0,12	0,12		7,02
30		(-1).MF.Sb1.HS1.PS	0,94					0,13	0,13		7,54
31		0.WF.Sb1.HS1.PS	4,26					0,57	0,57		34,02
32		(1).MF.Sb1.HS1.PS	1,10					0,15	0,15		8,78
		(2).MF.Sb1.HS1.PS	1,20					0,16	0,16		9,60
		(3).MF.Sb1.HS1.PS	1,29					0,17	0,17		10,28
		(4).MF.Sb1.HS1.PS	1,31					0,17	0,17		10,44
		(6).MF.Sb1.HS1.PS	1,66					0,22	0,22		13,24
	(7).MF.Sb1.HS1.PS	2,13					0,28	0,28	17,01		





33	Fitting Floor ke Bottom Panel	(-3)-(7).WF.Sb2.HS1.PS	46,91			0,067		3,14	3	1,05	62,86
34	Welding Floor ke Bottom Panel	(-3)-(7).WF.Sb2.HS1.PS	93,82		0,133			12,48	3	4,16	249,57
35	Lifting Side Girder ke Bottom Panel	(-3).WF.Sb2.HS1.PS		0,95			0,537	0,51	3	0,17	10,25
36	Fitting Side Girder ke Bottom Panel	(-3).WF.Sb2.HS1.PS	12,00			0,067		0,80	2	0,40	24,12
37	Welding Side Girder ke Bottom Panel	(-3).WF.Sb2.HS1.PS	24,00		0,133			3,19	2	1,60	95,76
38	Lifting Face Plate of Center Girder	(-4)-7.CG.Sb2.HS1		0,13			0,537	0,07	2	0,04	2,12
39	Fitting Face Plate of Center Girder ke CG	(-4)-7.CG.Sb2.HS1	6,00			0,067		0,40	2	0,20	12,06
40	Welding Face Plate of Center Girder ke CG	(-4)-7.CG.Sb2.HS1	12,00		0,133			1,60	1	1,60	95,76
41	Lifting Face Plate of Floor	(-4)-(8).FF.Sb2.HS1.PS		1,33			0,537	0,71	2	0,36	21,36
42	Fitting Face Plate of Floor	(-4)-(8).FF.Sb2.HS1.PS	46,91			0,067		3,14	2	1,57	94,29
43	Welding Face Plate of Floor	(-4)-(8).FF.Sb2.HS1.PS	93,82		0,133			12,48	3	4,16	249,57
44	Lifting Face Plate of Side Girder	(-2).WF.Sb2.HS1.PS		0,45			0,537	0,24	2	0,12	7,28
45	Fitting Face Plate of Side Girder ke SG	(-2).WF.Sb2.HS1.PS	12,00			0,067		0,80	2	0,40	24,12
46	Welding Face Plate of Side Girder ke SG	(-2).WF.Sb2.HS1.PS	24,00		0,133			3,19	2	1,60	95,76
JUMLAH			569,47	10,20						17,87	1072,15
<b>Sub-Block 3 (Panel Starboard Side)</b>											
1	Lifting Pelat A	(-4)-(8).SP.Sb1.HS1.PS		0,38			0,537	0,21	2	0,10	6,17
	Lifting Pelat B	(-4)-(8).SP.Sb1.HS1.PS		0,26			0,537	0,14	2	0,07	4,12
2	Fitting Pelat A dan pelat B	(-4)-(8).SP.Sb1.HS1.PS	6,00			0,067		0,40	1	0,40	24,12
3	Welding Joint pelat A dan pelat B	(-4)-(8).SP.Sb1.HS1.PS	12,00		0,133			1,60	1	1,60	95,76
	Lifting Frame ke Side Plate	(-4).BM.SB3.HS1.SB		0,02			0,537	0,01	2	0,01	0,32
		(-3).MF.SB3.HS1.SB		0,02		0,01		0,01		0,34	
		(-2).MF.SB3.HS1.SB		0,02				0,01		0,01	0,36
		(-1).MF.SB3.HS1.SB		0,02				0,01		0,01	0,37
		0.WF.SB3.HS1.SB		0,07				0,04		0,02	1,13
		(1).MF.SB3.HS1.SB		0,02				0,01		0,01	0,39
		(2).MF.SB3.HS1.SB		0,02				0,01		0,01	0,40
		(3).MF.SB3.HS1.SB		0,03				0,01		0,01	0,42
		(4).MF.SB3.HS1.SB		0,03				0,01		0,01	0,43
		(6).MF.SB3.HS1.SB		0,03				0,01		0,01	0,43
(7).MF.SB3.HS1.SB		0,03			0,01	0,01	0,43				
	Lifting Frame ke Side Plate	(-4).BM.SB3.HS1.SB	0,90			0,067		0,06	2	0,03	1,81
		(-3).MF.SB3.HS1.SB	0,86					0,06		0,03	1,72
		(-2).MF.SB3.HS1.SB	0,88					0,06		0,03	1,77
		(-1).MF.SB3.HS1.SB	0,94					0,06		0,03	1,90
		0.WF.SB3.HS1.SB	4,26					0,29		0,14	8,57
		(1).MF.SB3.HS1.SB	1,10					0,07		0,04	2,21
		(2).MF.SB3.HS1.SB	1,20					0,08		0,04	2,42
		(3).MF.SB3.HS1.SB	1,29					0,09		0,04	2,59
		(4).MF.SB3.HS1.SB	1,31					0,09		0,04	2,63
		(6).MF.SB3.HS1.SB	1,66					0,11		0,06	3,33
(7).MF.SB3.HS1.SB	2,13				0,14	0,07	4,28				



38	Lifting Bracket of Main Frame ke Main Frame	(-4)-(7).BM.Sb1.HS1.PS		0,05			0,537	0,03	1	0,03	1,74
39	Lifting Cantilever ke Web Frame	(0).BW.Sb1.HS1.PS		0,03			0,537	0,02	1	0,02	0,95
40	Fitting Bracket of Main Frame ke Main Frame	(-4)-(7).BM.Sb1.HS1.PS	8,75			0,067		0,59	1	0,59	35,16
41	Fitting Cantilever ke Web Frame	(0).BW.Sb1.HS1.PS	4,53			0,067		0,30	1	0,30	18,21
42	Welding Bracket of Main Frame ke Main Frame (atas)	(-4)-(7).BM.Sb1.HS1.PS	2,94		0,133			0,39	1	0,39	23,45
43	Welding Bracket of Main Frame ke Main Frame (Bawah)	(-4)-(7).BM.Sb1.HS1.PS	5,81					0,77	1	0,77	46,35
44	Welding Cantilever ke Web Frame	(0).BW.Sb1.HS1.PS	4,53		0,133			0,60	1	0,60	36,14
JUMLAH			77,63	1,03						4,55	272,91
<b>Sub-Block 2 (Panel Bottom)</b>											
1	Lifting Keel Plate	(-4)-(8).BP.Sb2.HS1.PS		0,84			0,537	0,45	3	0,15	9,06
2	Lifting Bottom Plate A	(-4)-(8).BP.Sb2.HS1.PS		0,41		0,22		0,07		4,45	
3	Lifting Bottom Plate E	(-4)-(8).BP.Sb2.HS1.PS		0,41		0,22		0,07		4,45	
4	Lifting Bottom Plate B	(-4)-(8).BP.Sb2.HS1.PS		0,36		0,19		0,06		3,83	
5	Lifting Bottom Plate F	(-4)-(8).BP.Sb2.HS1.PS		0,36		0,19		0,06		3,83	
6	Lifting Bottom Plate C	(-4)-(8).BP.Sb2.HS1.PS		0,40		0,22		0,07		4,34	
7	Lifting Bottom Plate G	(-4)-(8).BP.Sb2.HS1.PS		0,40		0,22		0,07		4,34	
8	Lifting Bottom Plate D	(-4)-(8).BP.Sb2.HS1.PS		0,30		0,16		0,05		3,24	
9	Lifting Bottom Plate H	(-4)-(8).BP.Sb2.HS1.PS		0,30		0,16		0,05		3,24	
10	Fitting Keel Plate ke Bottom Plate A	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40	3	0,13	8,04	
11	Fitting Kee Plate ke Bottom Plate E	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
12	Fitting Bottom Plate A ke B	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
13	Fitting Bottom Plate E ke F	(-4)-(8).BP.Sb2.HS1.PS	6,00		0,067		0,40		0,13	8,04	
14	Fitting Bottom Plate B ke C	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
15	Fitting Bottom Plate F ke G	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
16	Fitting Bottom Plate C ke D	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
17	Fitting Bottom Plate G ke H	(-4)-(8).BP.Sb2.HS1.PS	6,00				0,40		0,13	8,04	
18	Welding Keel Plate ke Bottom Plate A	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60		3	0,53	31,92
19	Welding Kee Plate ke Bottom Plate E	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
20	Welding Bottom Plate A ke B	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
21	Welding Bottom Plate E ke F	(-4)-(8).BP.Sb2.HS1.PS	12,00		0,133		1,60	0,53		31,92	
22	Welding Bottom Plate B ke C	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
23	Welding Bottom Plate F ke G	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
24	Welding Bottom Plate C ke D	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
25	Welding Bottom Plate G ke H	(-4)-(8).BP.Sb2.HS1.PS	12,00				1,60	0,53		31,92	
26	Lifting Bilge Plate	(-4)-(8).B.Sb2.HS1.PS		0,625			0,537	0,34			0,11
27	Fitting Bilge Plate ke Bottom Plate	(-4)-(8).B.Sb2.HS1.PS	12,00			0,067		0,80		0,27	16,08
28	Welding Bilge Plate ke Bottom Plate	(-4)-(8).B.Sb2.HS1.PS	24,00		0,133			3,19	2	1,60	95,76
29	Lifting Center Girder ke Bottom Panel	(-4)-(8).CG.Sb2.HS1		0,38			0,537	0,20	2	0,10	6,07
30	Fitting Center Girder ke Bottom Panel	(-4)-(8).CG.Sb2.HS1	6,00			0,067		0,40	2	0,20	12,06
31	Welding Center Girder ke Bottom Panel	(-4)-(8).CG.Sb2.HS1	12,00		0,133			1,60	2	0,80	47,88
	Panel	(-3)-(7).WF.Sb2.HS1.PS		2,54			0,537	1,36	3	0,45	27,26



		(-4).BM.SB3.HS1.SB	0,90				0,12		0,12	7,20
		(-3).MF.SB3.HS1.SB	0,86				0,11		0,11	6,84
		(-2).MF.SB3.HS1.SB	0,88				0,12		0,12	7,02
		(-1).MF.SB3.HS1.SB	0,94				0,13		0,13	7,54
		0.WF.SB3.HS1.SB	4,26				0,57		0,57	34,02
	Lifting Frame ke Side Plate	(1).MF.SB3.HS1.SB	1,10		0,133		0,15		0,15	8,78
		(2).MF.SB3.HS1.SB	1,20				0,16		0,16	9,60
		(3).MF.SB3.HS1.SB	1,29				0,17		0,17	10,28
		(4).MF.SB3.HS1.SB	1,31				0,17		0,17	10,44
		(6).MF.SB3.HS1.SB	1,66				0,22		0,22	13,24
		(7).MF.SB3.HS1.SB	2,13				0,28		0,28	17,01
	Lifting Bracket of Main Frame ke Main Frame	(-4)-7.BM.SB3.HS1.SB		0,05		0,537	0,03	1	0,03	1,74
	Lifting Cantilever ke Web Frame	0.CA.Sb3.HS2.SB		0,03		0,537	0,02	1	0,02	0,95
	Fitting Bracket of Main Frame ke Main Frame	(-4)-7.BM.SB3.HS1.SB	8,75			0,067	0,59	1	0,59	35,16
	Fitting Cantilever ke Web Frame	0.CA.Sb3.HS2.SB	4,53			0,067	0,30	1	0,30	18,21
	Welding Bracket of Main Frame ke Main Frame (atas)	(-4)-7.BM.SB3.HS1.SB	2,94		0,133		0,39	1	0,39	23,45
	Welding Bracket of Main Frame ke Main Frame (Bawah)	(-4)-7.BM.SB3.HS1.SB	5,81				0,77	1	0,77	46,35
	Welding Cantilever ke Web Frame	0.CA.Sb3.HS2.SB	4,53		0,133		0,60	1	0,60	36,14
JUMLAH			40,45	1,03					4,55	272,91
<b>Sub-Block 4 (Panel Deck)</b>										
1	Lifting deck Plate A	(-4)(-1).DP.Sb4.HS1.PS		0,26			0,14		0,05	2,80
2	Lifting deck Plate B	(-4)(-1).DP.Sb4.HS1.PS		0,58			0,31		0,10	6,22
3	Lifting Deck Plate C	(-4)(-1).DP.Sb4.HS1.SB		0,58			0,31		0,10	6,22
4	Lifting Deck Plate D	(-4)(-1).DP.Sb4.HS1.SB		0,58			0,31		0,10	6,22
5	Lifting deck Plate E	(-4)(-1).DP.Sb4.HS1.PS		0,58		0,537	0,31	3	0,10	6,22
6	Lifting Deck Plate F	(-4)(-1).DP.Sb4.HS1.PS		0,58			0,31		0,10	6,22
7	Lifting Deck Plate G	(-4)(-1).DP.Sb4.HS1.SB		0,58			0,31		0,10	6,22
8	Lifting Deck Plate H	(-4)(-1).DP.Sb4.HS1.SB		0,58			0,31		0,10	6,22
9	Lifting Deck Plate I	(-4)(-1).DP.Sb4.HS1.PS		0,26			0,14		0,05	2,80
10	Fitting Deck Plate A Ke Deck Plate B	(-4)(-1).DP.Sb4.HS1.PS	6,00				0,40		0,13	8,04
11	Fitting Deck Plate B Ke Deck Plate C	(-4)(-1).DP.Sb4.HS1.PS	6,00				0,40		0,13	8,04
12	Fitting Deck Plate C Ke Deck Plate D	(-4)(-1).DP.Sb4.HS1.SB	6,00				0,40		0,13	8,04
13	Fitting Deck Plate D Ke Deck Plate E	(-4)(-1).DP.Sb4.HS1.SB	6,00			0,067	0,40	3	0,13	8,04
14	Fitting Deck Plate E Ke Deck Plate F	(-4)(-1).DP.Sb4.HS1.PS	6,00				0,40		0,13	8,04
15	Fitting Deck Plate F Ke Deck Plate G	(-4)(-1).DP.Sb4.HS1.PS	6,00				0,40		0,13	8,04
16	Fitting Deck Plate G Ke Deck Plate H	(-4)(-1).DP.Sb4.HS1.SB	6,00				0,40		0,13	8,04
17	Fitting Deck Plate H Ke Deck Plate I	(-4)(-1).DP.Sb4.HS1.SB	6,00				0,40		0,13	8,04
18	Welding Deck Plate A Ke Deck Plate B	(-4)(-1).DP.Sb4.HS1.SB	12,00				1,60		0,53	31,92
19	Welding Deck Plate B Ke Deck Plate C	(-4)(-1).DP.Sb4.HS1.PS	12,00				1,60		0,53	31,92
20	Welding Deck Plate C Ke Deck Plate D	(-4)(-1).DP.Sb4.HS1.PS	12,00				1,60		0,53	31,92
	Ke Deck Plate E	(-4)(-1).DP.Sb4.HS1.SB	12,00		0,133		1,60	3	0,53	31,92
	Ke Deck Plate F	(-4)(-1).DP.Sb4.HS1.SB	12,00				1,60		0,53	31,92
	Ke Deck Plate G	(-4)(-1).DP.Sb4.HS1.PS	12,00				1,60		0,53	31,92
	Ke Deck Plate H	(-4)(-1).DP.Sb4.HS1.PS	12,00				1,60		0,53	31,92
	Ke Deck Plate I	(-4)(-1).DP.Sb4.HS1.SB	12,00				1,60		0,53	31,92



26		(-4).TD.Sb4.HS1.PS		0,10			0,05		0,02	1,03
27		(-3).TD.Sb4.HS1.PS		0,11			0,06		0,02	1,15
28		(-2).TD.Sb4.HS1.PS		0,11			0,06		0,02	1,20
29		(-1).TD.Sb4.HS1.PS		0,12			0,06		0,02	1,26
30		0.GD.Sb4.HS1.PS		0,36			0,19		0,06	3,84
31	Lifting Girder & Transverse deck Beam Ke Deck Plate	(1).TD.Sb4.HS1.SB		0,12		0,537	0,07	3	0,02	1,34
32		(2).TD.Sb4.HS1.SB		0,13			0,07		0,02	1,38
33		(3).TD.Sb4.HS1.SB		0,13			0,07		0,02	1,41
34		(4).TD.Sb4.HS1.SB		0,13			0,07		0,02	1,44
35		(6).TD.Sb4.HS1.SB		0,14			0,07		0,02	1,49
36		(7).TD.Sb4.HS1.SB		0,14			0,08		0,03	1,51
37		(-4).TD.Sb4.HS1.PS	17,43				1,17		0,58	35,03
38		(-3).TD.Sb4.HS1.PS	19,34				1,30		0,65	38,88
39		(-2).TD.Sb4.HS1.PS	20,33				1,36		0,68	40,86
40		(-1).TD.Sb4.HS1.PS	21,28				1,43		0,71	42,77
41		0.GD.Sb4.HS1.PS	20,63				1,38		0,69	41,46
42	Fitting Girder & Transverse deck Beam Ke Deck Plate	(1).TD.Sb4.HS1.SB	22,91		0,067		1,54	2	0,77	46,06
43		(2).TD.Sb4.HS1.SB	23,58				1,58		0,79	47,40
44		(3).TD.Sb4.HS1.SB	24,16				1,62		0,81	48,56
45		(4).TD.Sb4.HS1.SB	24,66				1,65		0,83	49,56
46		(6).TD.Sb4.HS1.SB	25,49				1,71		0,85	51,24
47		(7).TD.Sb4.HS1.SB	25,85				1,73		0,87	51,96
48		(-4).TD.Sb4.HS1.PS	17,43				2,32		0,77	46,36
49		(-3).TD.Sb4.HS1.PS	19,34				2,57		0,86	51,46
50		(-2).TD.Sb4.HS1.PS	20,33				2,70		0,90	54,08
51		(-1).TD.Sb4.HS1.PS	21,28				2,83		0,94	56,61
52		0.GD.Sb4.HS1.PS	20,63				2,74		0,91	54,87
53	Welding Girder & Transverse deck Beam Ke Deck Plate	(1).TD.Sb4.HS1.SB	22,91		0,133		3,05	3	1,02	60,95
54		(2).TD.Sb4.HS1.SB	23,58				3,14		1,05	62,72
55		(3).TD.Sb4.HS1.SB	24,16				3,21		1,07	64,27
56		(4).TD.Sb4.HS1.SB	24,66				3,28		1,09	65,59
57		(6).TD.Sb4.HS1.SB	25,49				3,39		1,13	67,81
58		(7).TD.Sb4.HS1.SB	25,85				3,44		1,15	68,77
59	Lifting Longitudinal Deck Beam ke Deck Plate	(-4-8).ID.Sb4.HS1.PS		0,035		0,537	0,02	3	0,01	0,38
60	Fitting Longitudinal Deck Beam ke Deck Plate	(-4-8).ID.Sb4.HS1.PS	6,00			0,067	0,40	2	0,20	12,06
61	Welding Longitudinal Deck Beam ke Deck Plate	(-4-8).ID.Sb4.HS1.PS	12,00		0,133		1,60	2	0,80	47,88
62	Lifting Bracket ke Deck Beam	(-4-7).B.Sb5.HS1.PS		0,054		0,537	0,03	1	0,03	1,74
63	Fitting Bracket ke Deck Beam	(-4-7).B.Sb5.HS1.PS	6,80			0,067	0,46	2	0,23	13,67
64	Welding Bracket ke Deck Beam	(-4-7).B.Sb5.HS1.PS	6,80		0,133		0,90	2	0,45	27,13
65	Lifting Cantilever ke Panel Deck	(-4-7).C.Sb5.HS1.PS		0,017		0,537	0,01	1	0,01	0,54
		(-4-7).C.Sb5.HS1.PS	1,199			0,067	0,08	2	0,04	2,41
	Panel deck	(-4-7).C.Sb5.HS1.PS	1,199		0,133		0,16	1	0,16	9,57
	JUMLAH		669,34	6,27					27,48	1648,53



JUMLAH		669,34	6,27						27,48	1648,53
<b>Sub-Block 5 (Panel Bulkhead)</b>										
Lifting Bulkhead Plate	(5).BP.Sb5.HS1.PS		1,70			0,537	0,91	3	0,30	18,27
Fitting Bulkhead Plate	(5).BP.Sb5.HS1.PS	26,35			0,067		1,77	2	0,88	52,97
Welding Bulkhead Plate	(5).BP.Sb5.HS1.PS	52,70		0,133			7,01	2	3,50	210,29
Lifting Stiffener of Bulkhead	5.WS.Sb5.HS1.a		0,70			0,537	0,38	2	0,19	11,34
Fitting Stiffener ke Bulkhead Panel	5.WS.Sb5.HS1.a	46,48			0,067		3,11	2	1,56	93,42
Welding Stiffener ke Bulkhead Panel	5.WS.Sb5.HS1.a	46,48		0,133			6,18	2	3,09	185,46
Lifting Bracket of Stiffener	(5).B.Sb5.HS1.PS		0,09			0,537	0,05	1	0,05	2,79
Fitting Bracket ke Stiffener	(5).B.Sb5.HS1.PS	5,44			0,067		0,36	1	0,36	21,87
Welding Bracket ke Stiffener	(5).B.Sb5.HS1.PS	5,44		0,133			0,72	1	0,72	43,41
Lifting Carlink	(5).BP.Sb5.HS1.PS		0,25			0,537	0,13	2	0,07	4,05
Fitting carling	(5).BP.Sb5.HS1.PS	7,67			0,067		0,51	2	0,26	15,42
Welding Carling	(5).BP.Sb5.HS1.PS	7,67		0,133			1,02	1	1,02	61,24
Lifting Cantilever ke Stifeener	(11).C.Sb5.HS1.PS		0,20			0,537	0,11	1	0,11	6,49
Fitting Cantilever	(11).C.Sb5.HS1.PS	10,08			0,067		0,68	1	0,68	40,52
Welding Cantilever ke Stiffener	(11).C.Sb5.HS1.PS	10,08		0,133			1,34	1	1,34	80,44
JUMLAH		218,40	2,94						14,13	847,98

PERAKITAN HULL STRUCTURE 01											
NO i (2)	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENTI
	Lifting Sub-Block 1 (Portside)	HS1.PS		1,034			0,537	0,56	3	0,19	11,11
	Fitting Sub-Block 1 ke Sub Block 2 (Double Bottom)	HS1.PS	15,400			0,067		1,03	2	0,52	30,95
	Welding Side Plate ke Bilge Plate	HS1.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS1.PS	3,400		0,133			0,45	1	0,45	27,13
JUMLAH			30,800	1,034						2,749	164,954
	Lifting Sub-Block 3 (Starboard Side)	HS1.SB		1,034			0,537	0,56	3	0,19	11,11
	Fitting Sub-Block 3 ke Sub Block 2 (Double Bottom)	HS1.SB	15,400			0,067		1,03	2	0,52	30,95
	Welding Side Plate ke Bilge Plate	HS1.SB	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS1.SB	3,400		0,133			0,45	1	0,45	27,13
JUMLAH			30,800	1,034						2,749	164,954
	Lifting Sub-Block 5 Bulkhead	HS5.BH		2,945			0,537	1,58	3	0,53	31,63
	Fitting Sub Block 5 ke Sb1, Sb2, dan Sb3	HS5.BH	32,058			0,067		2,15	3	0,72	42,96
	Welding Bulkhead Plate ke Bottom Plate	HS5.BH	20,324		0,133			2,70	2	1,35	81,09
	Welding Bulkhead Plate ke Side Plate	HS5.BH	9,524		0,133			1,27	2	0,63	38,00
	Welding Stiffener ke Bottom Plate	HS5.BH	2,210		0,133			0,29	2	0,15	8,82
JUMLAH			64,116	2,945						3,375	202,495
	Lifting Bulkhead Plate ke Bottom Plate	HS1.DK		6,269			0,537	3,37	3	1,12	67,33
	Fitting Bulkhead Plate ke Side Sb1, Sb2, Sb3, dan Sb5	HS1.DK	55,030			0,067		3,69	3	1,23	73,74
	Welding Bulkhead Plate ke Side Sb1&3	HS1.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Bulkhead Plate ke SB 1&3	HS1.DK	3,740		0,133			0,50	1	0,50	29,85
	Welding Bulkhead Plate Sb5	HS1.DK	25,080		0,133			3,34	2	1,67	100,07
	Welding Bulkhead Plate ke Sb4	HS1.DK	2,210		0,133			0,29	1	0,29	17,64
JUMLAH			110,060	6,269						6,406	384,377





Optimization Software:  
[www.balesio.com](http://www.balesio.com)

**PERHITUNGAN DURASI PERAKITAN BLOCK 2**

NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENTI
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	<b>Sub-Block 1 (Panel Portside)</b>	1	2,00		3,00		4=2*3	5	6=4/5	7=6*60	
1	Lifting Pelat A	8-19.SP.Sb1.HS2.PS		0,45			0,537	0,24	2	0,12	7,18
2	Lifting Pelat B	8-19.SS.Sb1.HS2.PS		0,50			0,537	0,27	2	0,13	8,05
3	Fitting Pelat A dan pelat B	8-19.SP.Sb1.HS2.PS	6,00			0,067		0,40	1	0,40	24,12
4	Welding Joint pelat A dan pelat B	8-19.SP.Sb1.HS2.PS	12,00		0,133			1,60	1	1,60	95,76
5	Lifting Frame ke Side Plate	8.WF.Sb1.HS2.PS		0,64				0,34	2	0,17	10,32
6		9.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,38	
7		10.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,38	
8		12.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,37	
9		13.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,37	
10		14.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,37	
11		15.WF.Sb1.HS2.PS		0,62			0,33	0,17		9,92	
12		16.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,37	
13		17.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,37	
14		18.MF.Sb1.HS2.PS		0,02			0,01	0,01		0,36	
15	19.WF.Sb1.HS2.PS		0,60			0,32	0,16	9,71			
16	Fitting Frame ke Side Plate	8.WF.Sb1.HS2.PS	2,55				0,17	2	0,09	5,13	
17		9.MF.Sb1.HS2.PS	2,51				0,17		0,08	5,05	
18		10.MF.Sb1.HS2.PS	2,50				0,17		0,08	5,03	
19		12.MF.Sb1.HS2.PS	2,45				0,16		0,08	4,93	
20		13.MF.Sb1.HS2.PS	2,45				0,16		0,08	4,93	
21		14.MF.Sb1.HS2.PS	2,45			0,067	0,16		0,08	4,93	
22		15.WF.Sb1.HS2.PS	2,45				0,16		0,08	4,93	
23		16.MF.Sb1.HS2.PS	2,45				0,16		0,08	4,93	
24		17.MF.Sb1.HS2.PS	2,45				0,16		0,08	4,93	
25		18.MF.Sb1.HS2.PS	2,40				0,16		0,08	4,82	
26	19.WF.Sb1.HS2.PS	2,40				0,16	0,08	4,82			
27	Welding Frame ke Side Plate	8.WF.Sb1.HS2.PS	5,10				0,68	1	0,68	40,71	
28		9.MF.Sb1.HS2.PS	2,51				0,33		0,33	20,04	
29		10.MF.Sb1.HS2.PS	2,50				0,33		0,33	19,96	
30		12.MF.Sb1.HS2.PS	2,45				0,33		0,33	19,56	
31		13.MF.Sb1.HS2.PS	2,45				0,33		0,33	19,56	
32		14.MF.Sb1.HS2.PS	2,45			0,133	0,33		0,33	19,56	
33		15.WF.Sb1.HS2.PS	4,90				0,65		0,65	39,12	
34		16.MF.Sb1.HS2.PS	2,45				0,33		0,33	19,55	
		17.MF.Sb1.HS2.PS	2,45				0,33		0,33	19,55	
		18.MF.Sb1.HS2.PS	2,40				0,32		0,32	19,16	
	19.WF.Sb1.HS2.PS	4,80				0,64	0,64	38,31			
	Frame ke Main Frame	9-18.BM.Sb1.HS2.PS		0,04			0,537	0,02	1	0,02	1,39
	eb Frame	9-18.BM.Sb1.HS2.PS		0,05			0,537	0,03	1	0,03	1,62
	Frame ke Main Frame	9-18.BM.Sb1.HS2.PS	7,77			0,067		0,52	1	0,52	31,25
	eb Frame	8-19.BW.Sb1.HS2.PS	13,59			0,067		0,91	1	0,91	54,62
	n Frame ke Main Frame (atas)	9-18.BM.Sb1.HS2.PS	2,61		0,133			0,35	1	0,35	20,84
	n Frame ke Main Frame (Bawah)	9-18.BM.Sb1.HS2.PS	5,16					0,69	1	0,69	41,20
	Web Frame	8-19.BW.Sb1.HS2.PS	13,59		0,133			1,81	1	1,81	108,43
	<b>JUMLAH</b>		122,26	3,08						12,61	756,87



Sub-Block 2 (Panel Bottom)											
1	Lifting Keel Plate	8-19.KP.Sb2.HS2		0,848				0,46		0,15	9,11
2	Lifting Bottom Plate A	8-19.BP.Sb2.HS2.Psa		0,422				0,23		0,08	4,53
3	Lifting Bottom Plate E	8-19.BP.Sb2.HS2.Pse		0,422				0,23		0,08	4,53
4	Lifting Bottom Plate B	8-19.BP.Sb2.HS2.Psb		0,422				0,23		0,08	4,53
5	Lifting Bottom Plate F	8-19.BP.Sb2.HS2.Psf		0,422			0,537	0,23	3	0,08	4,53
6	Lifting Bottom Plate C	8-19.BP.Sb2.HS2.Psc		0,528				0,28		0,09	5,67
7	Lifting Bottom Plate G	8-19.BP.Sb2.HS2.Psg		0,528				0,28		0,09	5,67
8	Lifting Bottom Plate D	8-19.BP.Sb2.HS2.Psd		0,301				0,16		0,05	3,24
9	Lifting Bottom Plate H	8-19.BP.Sb2.HS2.Psh		0,301				0,16		0,05	3,24
10	Fitting Keel Plate ke Bottom Plate A	8-19.KP.Sb2.HS2	6,00					0,40		0,13	8,04
11	Fitting Kee Plate ke Bottom Plate E	8-19.KP.Sb2.HS2	6,00					0,40		0,13	8,04
12	Fitting Bottom Plate A ke B	8-19.BP.Sb2.HS2.Psa	6,00				0,067	0,40	3	0,13	8,04
13	Fitting Bottom Plate E ke F	8-19.BP.Sb2.HS2.Pse	6,00					0,40		0,13	8,04
14	Fitting Bottom Plate B ke C	8-19.BP.Sb2.HS2.Psb	6,00					0,40		0,13	8,04
15	Fitting Bottom Plate F ke G	8-19.BP.Sb2.HS2.Psf	6,00					0,40		0,13	8,04
16	Fitting Bottom Plate C ke D	8-19.BP.Sb2.HS2.Psc	6,00					0,40		0,13	8,04
17	Fitting Bottom Plate G ke H	8-19.BP.Sb2.HS2.Psg	6,00					0,40		0,13	8,04
18	Welding Keel Plate ke Bottom Plate A	8-19.KP.Sb2.HS2	12,00					1,60		0,53	31,92
19	Welding Kee Plate ke Bottom Plate E	8-19.KP.Sb2.HS2	12,00					1,60		0,53	31,92
20	Welding Bottom Plate A ke B	8-19.BP.Sb2.HS2.Psa	12,00				0,133	1,60	3	0,53	31,92
21	Welding Bottom Plate E ke F	8-19.BP.Sb2.HS2.Pse	12,00					1,60		0,53	31,92
22	Welding Bottom Plate B ke C	8-19.BP.Sb2.HS2.Psb	12,00					1,60		0,53	31,92
23	Welding Bottom Plate F ke G	8-19.BP.Sb2.HS2.Psf	12,00					1,60		0,53	31,92
24	Welding Bottom Plate C ke D	8-19.BP.Sb2.HS2.Psc	12,00					1,60		0,53	31,92
25	Welding Bottom Plate G ke H	8-19.BP.Sb2.HS2.Psg	12,00					1,60		0,53	31,92
26	Lifting Bilge Plate	8-19.BS.Sb2.HS2.SB		1,130				0,537	2	0,30	18,21
27	Fitting Bilge Plate ke Bottom Plate	8-19.BS.Sb2.HS2.SB	12,00			0,067		0,80	2	0,40	24,12
28	Welding Bilge Plate ke Bottom Plate	8-19.BS.Sb2.HS2.SB	24,00		0,133			3,19	2	1,60	95,76
29	Lifting Center Girder ke Bottom Panel	8-19.CG.Sb2.HS2		0,38				0,537	2	0,10	6,07
30	Fitting Center Girder ke Bottom Panel	8-19.CG.Sb2.HS2	6,00			0,067		0,40	2	0,20	12,06
31	Welding Center Girder ke Bottom Panel	8-19.CG.Sb2.HS2	12,00		0,133			1,60	1	1,60	95,76
32	Lifting Pondasi Mesin ke Bottom Panel	8-19.PM.Sb2.HS2		1,00				0,537	3	0,18	10,79
33	Fitting Pondasi Mesin ke Bottom Panel	8-19.PM.Sb2.HS2	16,00			0,067		1,07	2	0,54	32,16
34	Welding Pondasi Mesin ke Bottom Panel	8-19.PM.Sb2.HS2	32,00		0,133			4,26	2	2,13	127,68
35	Lifting Floor ke Bottom Panel	8-19.WF.Sb2.HS1.PS		3,55				0,537	3	0,64	38,14
36	Fitting Floor ke Bottom Panel	8-19.WF.Sb2.HS1.PS	60,14			0,067		4,03	3	1,34	80,59
37	Welding Floor ke Bottom Panel	8-19.WF.Sb2.HS1.PS	120,28		0,133			16,00	3	5,33	319,95
38	Welding Floor ke Girder	8-19.WF.Sb2.HS1.PS	120,00		0,133			15,96	3	5,32	319,20
39	Lifting Side Girder ke Bottom Panel	8-19.SG.Sb2.HS2.PS		0,95				0,537	2	0,26	15,38
	Bottom Panel	8-19.SG.Sb2.HS2.PS	12,00			0,067		0,80	2	0,40	24,12
	Bottom Panel	8-19.SG.Sb2.HS2.PS	24,00		0,133			3,19	2	1,60	95,76
	Center Girder dan Pondasi Mesin	8-19.FG.Sb2.HS2		0,84				0,537	2	0,23	13,61
	Center Girder dan Pondasi Mesin	8-19.FG.Sb2.HS2	22,00			0,067		1,47	3	0,49	29,48
	Center Girder dan Pondasi Mesin	8-19.FG.Sb2.HS2	44,00		0,133			5,85	3	1,95	117,04
	Center Girder	8-19.CG.Sb2.HS2		1,51				0,537	2	0,41	24,38
	Center Girder	8-19.CG.Sb2.HS2	53,54			0,067		3,59	3	1,20	71,74
	Floor	8-19.CG.Sb2.HS2	107,08		0,133			14,24	3	4,75	284,83
	Center Girder	8-19.FSG.Sb2.HS2		0,45				0,537	2	0,12	7,28
	Center Girder	8-19.FSG.Sb2.HS2	24,00			0,067		1,61	2	0,80	48,24
	Side Girder	8-19.FSG.Sb2.HS2	48,00		0,133			6,38	3	2,13	127,68
	JUMLAH		881,04	14,021						40,08	2404,74



**Optimization Software:**  
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Sub-Block 3 (Panel Starboard Side)											
1	Lifting Pelat A	0-8.SP.Sb3.HS2.SB		0,45			0,537	0,24	2	0,120	7,176
2	Lifting Pelat B	0-8.SS.Sb3.HS2.SB		0,50			0,537	0,27	2	0,134	8,051
3	Fitting Pelat A dan pelat B	0-8.SP.Sb3.HS2.SB	6,00			0,067		0,40	1	0,402	24,120
4	Welding Joint pelat A dan pelat B	0-8.SP.Sb3.HS2.SB	12,00		0,133			1,60	1	1,596	95,760
5	Lifting Frame ke Side Plate	8.WF.Sb3.HS2.SB		0,64			0,537	0,34	2	0,172	10,322
6		9.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,381	
7		10.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,380	
8		12.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,372	
9		13.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,372	
10		14.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,372	
11		15.WF.Sb3.HS2.SB		0,62		0,33		0,165		9,918	
12		16.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,372	
13		17.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,372	
14		18.MF.Sb3.HS2.SB		0,02		0,01		0,006		0,364	
15		19.WF.Sb3.HS2.SB		0,60		0,32	0,162	9,713			
16	Fitting Frame ke Side Plate	8.WF.Sb3.HS2.SB	2,55				0,17	0,085	5,127		
17		9.MF.Sb3.HS2.SB	2,51				0,17	0,084	5,047		
18		10.MF.Sb3.HS2.SB	2,50				0,17	0,084	5,027		
19		12.MF.Sb3.HS2.SB	2,45				0,16	0,082	4,926		
20		13.MF.Sb3.HS2.SB	2,45				0,16	0,082	4,926		
21		14.MF.Sb3.HS2.SB	2,45			0,067	0,16	0,082	4,926		
22		15.WF.Sb3.HS2.SB	2,45				0,16	0,082	4,926		
23		16.MF.Sb3.HS2.SB	2,45				0,16	0,082	4,925		
24		17.MF.Sb3.HS2.SB	2,45				0,16	0,082	4,925		
25		18.MF.Sb3.HS2.SB	2,40				0,16	0,080	4,825		
26		19.WF.Sb3.HS2.SB	2,40			0,16	0,080	4,824			
27	Welding Frame ke Side Plate	8.WF.Sb3.HS2.SB	5,10		0,133		0,68	0,678	40,710		
28		9.MF.Sb3.HS2.SB	2,51				0,33	0,334	20,037		
29		10.MF.Sb3.HS2.SB	2,50				0,33	0,333	19,957		
30		12.MF.Sb3.HS2.SB	2,45				0,33	0,326	19,558		
31		13.MF.Sb3.HS2.SB	2,45				0,33	0,326	19,557		
32		14.MF.Sb3.HS2.SB	2,45				0,33	0,326	19,557		
33		15.WF.Sb3.HS2.SB	4,90				0,65	0,652	39,116		
34		16.MF.Sb3.HS2.SB	2,45				0,33	0,326	19,555		
35		17.MF.Sb3.HS2.SB	2,45				0,33	0,326	19,553		
36		18.MF.Sb3.HS2.SB	2,40				0,32	0,319	19,155		
37		19.WF.Sb3.HS2.SB	4,80			0,64	0,638	38,308			
38	Lifting Bracket of Main Frame ke Main Frame	9-18.BM.Sb3.HS2.SB		0,04			0,537	0,02	1	0,023	1,395
39	Lifting Cantilever ke Web Frame	8-19.BW.Sb3.HS2.SB		0,05			0,537	0,03	1	0,027	1,622
	Frame ke Main Frame	9-18.BM.Sb3.HS2.SB	7,77			0,067		0,52	1	0,521	31,253
	Web Frame	8-19.BW.Sb3.HS2.SB	13,59			0,067		0,91	1	0,910	54,621
	Main Frame ke Main Frame (atas)	9-18.BM.Sb3.HS2.SB	2,61		0,133			0,35	1	0,347	20,842
	Main Frame ke Main Frame (Bawah)	9-18.BM.Sb3.HS2.SB	5,16					0,69	1	0,687	41,198
	Web Frame	8-19.BW.Sb3.HS2.SB	13,59		0,133			1,81	1	1,807	108,427
	JUMLAH		122,26	3,08						12,61	756,87



Sub-Block 4 (Panel Deck)										
1	Lifting deck Plate A	8-19.DP.Sb4.HS2.Psa		0,67			0,36		0,12	7,19
2	Lifting deck Plate B	8-19.DP.Sb4.HS2.Psb		0,57			0,30		0,10	6,07
3	Lifting Deck Plate C	8-19.DP.Sb4.HS2.Psc		0,57			0,30		0,10	6,07
4	Lifting Deck Plate D	8-19.DP.Sb4.HS2.Psd		0,57			0,30		0,10	6,07
5	Lifting deck Plate E	8-19.DP.Sb4.HS2.Pse		0,57			0,30		0,10	6,07
6	Lifting deck Plate F	8-19.DP.Sb4.HS2.Psf		0,57			0,30		0,10	6,07
7	Lifting Deck Plate G	8-19.DP.Sb4.HS2.Psg		0,57			0,30		0,10	6,07
8	Lifting Deck Plate H	8-19.DP.Sb4.HS2.Psh		0,57			0,30		0,10	6,07
9	Lifting Deck Plate I	8-19.DP.Sb4.HS2.Psi		0,67			0,36		0,12	7,19
10	Fitting Deck Plate A Ke Deck Plate B	8-19.DP.Sb4.HS2.Psa	6,00				0,40		0,13	8,04
11	Fitting Deck Plate B Ke Deck Plate C	8-19.DP.Sb4.HS2.Psb	6,00				0,40		0,13	8,04
12	Fitting Deck Plate C Ke Deck Plate D	8-19.DP.Sb4.HS2.Psc	6,00				0,40		0,13	8,04
13	Fitting Deck Plate D Ke Deck Plate E	8-19.DP.Sb4.HS2.Psd	6,00				0,40		0,13	8,04
14	Fitting Deck Plate E Ke Deck Plate F	8-19.DP.Sb4.HS2.Pse	6,00				0,40		0,13	8,04
15	Fitting Deck Plate F Ke Deck Plate G	8-19.DP.Sb4.HS2.Psf	6,00				0,40		0,13	8,04
16	Fitting Deck Plate G Ke Deck Plate H	8-19.DP.Sb4.HS2.Psg	6,00				0,40		0,13	8,04
17	Fitting Deck Plate H Ke Deck Plate I	8-19.DP.Sb4.HS2.Psh	6,00				0,40		0,13	8,04
18	Welding Deck Plate A Ke Deck Plate B	8-19.DP.Sb4.HS2.Psa	12,00				1,60		0,53	31,92
19	Welding Deck Plate B Ke Deck Plate C	8-19.DP.Sb4.HS2.Psb	12,00				1,60		0,53	31,92
20	Welding Deck Plate C Ke Deck Plate D	8-19.DP.Sb4.HS2.Psc	12,00				1,60		0,53	31,92
21	Welding Deck Plate D Ke Deck Plate E	8-19.DP.Sb4.HS2.Psd	12,00				1,60		0,53	31,92
22	Welding Deck Plate E Ke Deck Plate F	8-19.DP.Sb4.HS2.Pse	12,00				1,60		0,53	31,92
23	Welding Deck Plate F Ke Deck Plate G	8-19.DP.Sb4.HS2.Psf	12,00				1,60		0,53	31,92
24	Welding Deck Plate G Ke Deck Plate H	8-19.DP.Sb4.HS2.Psg	12,00				1,60		0,53	31,92
25	Welding Deck Plate H Ke Deck Plate I	8-19.DP.Sb4.HS2.Psh	12,00				1,60		0,53	31,92
26	Lifting Girder & Transverse deck Beam Ke Deck Plate	8.GD.Sb4.HS2.PS		0,22			0,12		0,04	2,36
27		9.TD.Sb4.HS2.PS		0,07			0,04		0,01	0,76
28		10.TD.Sb4.HS2.PS		0,07			0,04		0,01	0,77
29		12.TD.Sb4.HS2.PS		0,07			0,04		0,01	0,78
30		13.TD.Sb4.HS2.PS		0,07			0,04		0,01	0,79
31		14.TD.Sb4.HS2.SB		0,07			0,04		0,01	0,79
32		15.GD.Sb4.HS2.PS		0,22			0,12		0,04	2,36
33		16.TD.Sb4.HS2.SB		0,07			0,04		0,01	0,79
34		17.TD.Sb4.HS2.SB		0,07			0,04		0,01	0,79
35		18.TD.Sb4.HS2.SB		0,07			0,04		0,01	0,79
36		19.GD.Sb4.HS2.PS		0,22			0,12		0,04	2,36
37		8.GD.Sb4.HS2.PS	7,00				0,47		0,23	14,07
38		9.TD.Sb4.HS2.PS	6,60				0,44		0,22	13,27
39		10.TD.Sb4.HS2.PS	6,70				0,45		0,22	13,47
	12.TD.Sb4.HS2.PS	6,80				0,46		0,23	13,67	
	13.TD.Sb4.HS2.PS	6,85				0,46		0,23	13,77	
	14.TD.Sb4.HS2.SB	6,85				0,46		0,23	13,77	
	15.GD.Sb4.HS2.PS	7,00				0,47		0,23	14,07	
	16.TD.Sb4.HS2.SB	6,90				0,46		0,23	13,87	
	17.TD.Sb4.HS2.SB	6,90				0,46		0,23	13,87	
	18.TD.Sb4.HS2.SB	6,90				0,46		0,23	13,87	
	19.GD.Sb4.HS2.PS	7,00				0,47		0,23	14,07	



48		8.GD.Sb4.HS2.PS	14,00				1,86		0,62	37,24
49		9.TD.Sb4.HS2.PS	13,20				1,76		0,59	35,11
50		10.TD.Sb4.HS2.PS	13,40				1,78		0,59	35,64
51		12.TD.Sb4.HS2.PS	13,60				1,81		0,60	36,18
52		13.TD.Sb4.HS2.PS	13,70				1,82		0,61	36,45
53	Welding Girder & Transverse deck Beam Ke Deck Plate	14.TD.Sb4.HS2.SB	13,70		0,133		1,82	3	0,61	36,45
54		15.GD.Sb4.HS2.PS	14,00				1,86		0,62	37,24
55		16.TD.Sb4.HS2.SB	13,80				1,84		0,61	36,71
56		17.TD.Sb4.HS2.SB	13,80				1,84		0,61	36,71
57		18.TD.Sb4.HS2.SB	13,80				1,84		0,61	36,71
58		19.GD.Sb4.HS2.PS	14,00				1,86		0,62	37,24
59	Lifting Longitudinal Deck Beam ke Deck Plate	8-19.ID.Sb4.HS2.PS		1,319		0,537	0,71	3	0,24	14,16
60	Fitting Longitudinal Deck Beam ke Deck Plate	8-19.ID.Sb4.HS2.PS	42,00			0,067	2,81	2	1,41	84,42
61	Welding Longitudinal Deck Beam ke Deck Plate	8-19.ID.Sb4.HS2.PS	84,00		0,133		11,17	3	3,72	223,44
62	Lifting Bracket ke Deck Beam	8-19.BC.Sb4.HS2.PS		0,303			0,537	1	0,16	9,76
63	Fitting Bracket ke Deck Beam	8-19.BC.Sb4.HS2.PS	38,08			0,067	2,55	2	1,28	76,54
64	Welding Bracket ke Deck Beam	8-19.BC.Sb4.HS2.PS	38,08		0,133		5,06	2	2,53	151,94
65	Lifting Cantilever ke Panel Deck	8-19.BW.SB4.HS2.DS		0,050			0,537	1	0,027	1,62
66	Fitting Cantilever	8-19.BW.SB4.HS2.DS	3,598			0,067	0,24	1	0,241	14,46
67	Welding Cantilever ke Panel deck	8-19.BW.SB4.HS2.DS	3,598		0,133		0,48	1	0,479	28,71
68	Lifting Pilar to Deck Panel	8-19.PL.Sb1.HS2.PS		0,204			0,537	1	0,11	6,57
69	Fitting Pilar to Deck Panel	8-19.PL.Sb1.HS2.PS	3,78			0,067	0,25	2	0,13	7,60
70	Welding Pilar to Deck Panel	8-19.PL.Sb1.HS2.PS	3,78		0,133		0,50	2	0,25	15,08
71	Lifting Bracket of Pillar ke Deck Panel	14.BP.SB4.HS2.DS		0,125			0,537	2	0,03	2,01
72	Fitting Bracket of Pillar	14.BP.SB4.HS2.DS	22,44			0,067	1,50	1	1,50	90,21
73	Welding Bracket of Pillar ke Deck Panel	14.BP.SB4.HS2.DS	44,88		0,133		5,97	2	2,98	179,07
JUMLAH			654,75	8,54					30,82	1848,92
<b>Sub-Block 5 (Panel Bulkhead)</b>										
	Lifting Bulkhead Plate	(11).BP.Sb5.HS1.PS		2,43			0,537	3	0,44	26,11
	Fitting Bulkhead Plate	(11).BP.Sb5.HS1.PS	26,35			0,067	1,77	2	0,88	52,97
	Welding Bulkhead Plate	(11).BP.Sb5.HS1.PS	52,70		0,133		7,01	2	3,50	210,29
	Lifting Stiffener of Bulkhead	11.ST.Sb5.HS2.a		1,04			0,537	2	0,28	16,68
	Fitting Stiffener ke Bulkhead Panel	11.ST.Sb5.HS2.a	34,24			0,067	2,29	2	1,15	68,83
	Welding Stiffener ke Bulkhead Panel	11.ST.Sb5.HS2.a	68,49		0,133		9,11	2	4,55	273,26
	Lifting Bracket of Stiffener	(11).B.Sb5.HS1.PS		0,11			0,537	1	0,06	3,49
	Fitting Bracket ke Stiffener	(11).B.Sb5.HS1.PS	6,80			0,067	0,46	1	0,46	27,34
	Welding Bracket ke Stiffener	(11).B.Sb5.HS1.PS	6,80		0,133		0,90	1	0,90	54,26
	Lifting Cantilever ke Stifeener	(11).C.Sb5.HS1.PS		0,13			0,537	1	0,07	4,33
	Fitting Cantilever	(11).C.Sb5.HS1.PS	6,72			0,067	0,45	1	0,45	27,01
	Welding Cantilever ke Stiffener	(11).C.Sb5.HS1.PS	6,72		0,133		0,89	1	0,89	53,63
JUMLAH			208,82	3,71					13,64	818,18



PERPIPAAN											
PERPIPAAN AIR TAWAR											
Lifting Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB			0,07				0,01	2	0,00	0,27
Fitting Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB	7,60						6,43	2	3,21	192,86
Welding Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB	7,60						1,61	1	1,61	96,66
PERPIPAAN AIR LAUT											
Lifting Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB			0,08				0,01	2	0,01	0,30
Fitting Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB	6,08						5,14	2	2,57	154,29
Welding Pipa Diameter 2" + Komponen	(9-19).AT.2.HS2.PSSB	6,08						1,29	1	1,29	77,33
Lifting Pipa Diameter 3" + Komponen	(9-19).AT.2.HS2.PSSB			0,01				0,00	2	0,00	0,03
Fitting Pipa Diameter 3" + Komponen	(9-19).AT.2.HS2.PSSB	5,60						4,73	2	2,37	142,01
Welding Pipa Diameter 3" + Komponen	(9-19).AT.2.HS2.PSSB	5,60						1,19	1	1,19	71,17
JUMLAH		38,55		0,16						12,25	734,91

PERAKITAN HULL STRUCTURE 04											
NO i (2)	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG (m)	BERAT (ton)	WELDING JO/unit	FITTING JO/unit	LIFTING JO/unit			JAM	MENTI
	Lifting Sub-Block 1 (Portside)	HS2.PS		3,083			0,537	1,66	3	0,55	33,12
	Fitting Sub-Block 1 ke Sub Block 2 (Double Bottom)	HS2.PS	15,900			0,067		1,07	2	0,53	31,96
	Welding Side Plate ke Bilge Plate	HS2.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS2.PS	3,900		0,133			0,52	1	0,52	31,12
JUMLAH			31,800	3,083						3,199	191,957
	Lifting Sub-Block 3 (Starboard Side)	HS2.SB		3,083			0,537	1,66	3	0,55	33,12
	Fitting Sub-Block 3 ke Sub Block 2 (Double Bottom)	HS2.SB	15,900			0,067		1,07	2	0,53	31,96
	Welding Side Plate ke Bilge Plate	HS2.SB	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS2.SB	3,900		0,133			0,52	1	0,52	31,12
JUMLAH			31,800	3,083						3,199	191,957
	Lifting Sub-Block 5 Bulkhead	HS2.BH		3,709			0,537	1,99	3	0,66	39,83
	Fitting Sub Block 5 ke Sb1, Sb2, dan Sb3	HS2.BH	37,172			0,067		2,49	3	0,83	49,81
	Welding Bulkhead Plate ke Bottom Plate	HS2.BH	25,012		0,133			3,33	2	1,66	99,80
	Welding Bulkhead Plate ke Side Plate	HS2.BH	8,760		0,133			1,17	2	0,58	34,95
	Welding Bracket of Stiffener ke Bottom Plate	HS2.BH	3,400		0,133			0,45	2	0,23	13,57
JUMLAH			74,344	3,709						3,966	237,959
	Lifting Sub-Block 4 (Deck)	HS2.DK		8,537			0,537	4,58	3	1,53	91,69
	Fitting Sub Block 4 ke Sb1, Sb2, Sb3, dan Sb5	HS2.DK	59,400			0,067		3,98	3	1,33	79,60
	Welding deck Plate Sb4 ke Side Sb1&3	HS2.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Bracket of Sb4 ke SB 1&3	HS2.DK	4,080		0,133			0,54	1	0,54	32,56
	Welding deck Plate Bulkhead Plate Sb5	HS2.DK	27,920		0,133			3,71	2	1,86	111,40
	ke Sb4	HS2.DK	3,400		0,133			0,45	1	0,45	27,13
JUMLAH			118,800	8,537						7,302	438,135



PERHITUNGAN DURASI PERAKITAN BLOCK 3											
NO	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	<b>Sub-Block 1 (Panel Portside)</b>	1	2		3			4=2*3	5	6=4/5	7=6*60
1	Lifting Pelat A	20-31.SP.Sb1.HS3.PS		0,565			0,537	0,30	2	0,15	9,1
2	Lifting Pelat B	20-31.SP.Sb1.HS3.PS		0,358			0,537	0,19	2	0,10	5,8
3	Fitting Pelat A dan pelat B	20-31.SP.Sb1.HS3.PS	6,00			0,067		0,40	1	0,40	24,1
4	Welding Joint pelat A dan pelat B	20-31.SP.Sb1.HS3.PS	12,00		0,133			1,60	1	1,60	95,8
5		20.MF.Sb1.HS3.PS		0,025			0,537	0,01	2	0,01	0,4
6		21.MF.Sb1.HS3.PS		0,025				0,01		0,01	0,4
7		22.MF.Sb1.HS3.PS		0,025				0,01		0,01	0,4
8		23.WF.Sb1.HS3.PS		0,073				0,04		0,02	1,2
9		24.MF.Sb1.HS3.PS		0,025				0,01		0,01	0,4
10		25.MF.Sb1.HS3.PS		0,025				0,01		0,01	0,4
11		26.MF.Sb1.HS3.PS		0,026				0,01		0,01	0,4
12		27.WF.Sb1.HS3.PS		0,075				0,04		0,02	1,2
13		28.MF.Sb1.HS3.PS		0,026				0,01		0,01	0,4
14		29.MF.Sb1.HS3.PS		0,026				0,01		0,01	0,4
15		30.MF.Sb1.HS3.PS		0,026				0,01		0,01	0,4
16		31.WF.Sb1.HS3.PS		0,075			0,04	0,02	1,2		
17		20.MF.Sb1.HS3.PS	2,35			0,067		0,16	2	0,08	4,7
18		21.MF.Sb1.HS3.PS	2,35					0,16		0,08	4,7
19		22.MF.Sb1.HS3.PS	2,35					0,16		0,08	4,7
20		23.WF.Sb1.HS3.PS	2,34					0,16		0,08	4,7
21		24.MF.Sb1.HS3.PS	2,37					0,16		0,08	4,8
22		25.MF.Sb1.HS3.PS	2,38					0,16		0,08	4,8
23		26.MF.Sb1.HS3.PS	2,39					0,16		0,08	4,8
24		27.WF.Sb1.HS3.PS	2,38					0,16		0,08	4,8
25		28.MF.Sb1.HS3.PS	2,40					0,16		0,08	4,8
26		29.MF.Sb1.HS3.PS	2,45					0,16		0,08	4,9
27		30.MF.Sb1.HS3.PS	2,45					0,16		0,08	4,9
28		31.WF.Sb1.HS3.PS	2,40				0,16	0,08	4,8		



29		20.MF.Sb1.HS3.PS	2,35				0,31		0,31	18,8			
30		21.MF.Sb1.HS3.PS	2,35				0,31		0,31	18,8			
31		22.MF.Sb1.HS3.PS	2,35				0,31		0,31	18,8			
32		23.WF.Sb1.HS3.PS	4,68				0,62		0,62	37,3			
33		24.MF.Sb1.HS3.PS	2,37				0,32		0,32	18,9			
34	Welding Frame ke Side Plate	25.MF.Sb1.HS3.PS	2,38		0,133		0,32	1	0,32	19,0			
35		26.MF.Sb1.HS3.PS	2,39			0,32	19,1						
36		27.WF.Sb1.HS3.PS	4,77			0,63	38,0						
37		28.MF.Sb1.HS3.PS	2,40			0,32	19,2						
38		29.MF.Sb1.HS3.PS	2,45			0,33	19,6						
39		30.MF.Sb1.HS3.PS	2,45			0,33	19,6						
40		31.WF.Sb1.HS3.PS	4,81			0,64	38,4						
41		Lifting Bracket of Main Frame ke Main Frame	20-30.BM.Sb1.HS3.PS			0,049			0,537	0,03	1	0,03	1,6
42		Lifting Cantilever ke Web Frame	23-31.CA.Sb1.HS3.PS			0,050			0,537	0,03	1	0,03	1,6
43	Fitting Bracket of Main Frame ke Main Frame	20-30.BM.Sb1.HS3.PS	12,46			0,067	0,83	1	0,83	50,1			
44	Fitting Cantilever ke Web Frame	23-31.CA.Sb1.HS3.PS	14,49			0,067	0,97	1	0,97	58,2			
45	Welding Bracket of Main Frame ke Main Frame (atas)	20-30.BM.Sb1.HS3.PS	12,46		0,133		1,66	1	1,66	99,4			
46	Welding Cantilever ke Web Frame	23-31.CA.Sb1.HS3.PS	14,49		0,133		1,93	1	1,93	115,6			
<b>JUMLAH</b>			136,26	1,475					13,52	811,4			
<b>Sub-Block 2 (Panel Bottom)</b>													
1	Lifting Keel Plate	20-31.KP.Sb2.HS3		0,424			0,23	3	0,08	4,55			
2	Lifting Bottom Plate A	20-31.BP.Sb2.HS3.Psa		0,565			0,30		0,10	6,07			
3	Lifting Bottom Plate E	20-31.BP.Sb2.HS3.PSe		0,565			0,30		0,10	6,07			
4	Lifting Bottom Plate B	20-31.BP.Sb2.HS3.PSb		0,565			0,30		0,10	6,07			
5	Lifting Bottom Plate F	20-31.BP.Sb2.HS3.PSf		0,565			0,30		0,10	6,07			
6	Lifting Bottom Plate C	20-31.BP.Sb2.HS3.PSc		0,565			0,30		0,10	6,07			
7	Lifting Bottom Plate G	20-31.BP.Sb2.HS3.PSg		0,565			0,30		0,10	6,07			
8	Lifting Bottom Plate D	20-31.BP.Sb2.HS3.PSd		0,283			0,15		0,05	3,04			
9	Lifting Bottom Plate H	20-31.BP.Sb2.HS3.PSh		0,283			0,15		0,05	3,04			
10	Fitting Keel Plate ke Bottom Plate A	20-31.KP.Sb2.HS3	6,00				0,40	3	0,13	8,04			
11	Fitting Kee Plate ke Bottom Plate E	20-31.KP.Sb2.HS3	6,00				0,40		0,13	8,04			
12	Fitting Bottom Plate A ke B	20-31.BP.Sb2.HS3.Psa	6,00				0,40		0,13	8,04			
13	Fitting Bottom Plate E ke F	20-31.BP.Sb2.HS3.PSe	6,00				0,40		0,13	8,04			
	e B ke C	20-31.BP.Sb2.HS3.PSb	6,00		0,067		0,40		0,13	8,04			
	e F ke G	20-31.BP.Sb2.HS3.PSf	6,00				0,40		0,13	8,04			
	e C ke D	20-31.BP.Sb2.HS3.PSc	6,00				0,40		0,13	8,04			
	e G ke H	20-31.BP.Sb2.HS3.PSg	6,00				0,40	0,13	8,04				



18	Welding Keel Plate ke Bottom Plate A	20-31.KP.Sb2.HS3	12,00				1,60		0,53	31,92
19	Welding Kee Plate ke Bottom Plate E	20-31.KP.Sb2.HS3	12,00				1,60		0,53	31,92
20	Welding Bottom Plate A ke B	20-31.BP.Sb2.HS3.Psa	12,00				1,60		0,53	31,92
21	Welding Bottom Plate E ke F	20-31.BP.Sb2.HS3.PSe	12,00		0,133		1,60		0,53	31,92
22	Welding Bottom Plate B ke C	20-31.BP.Sb2.HS3.PSb	12,00				1,60		0,53	31,92
23	Welding Bottom Plate F ke G	20-31.BP.Sb2.HS3.PSf	12,00				1,60		0,53	31,92
24	Welding Bottom Plate C ke D	20-31.BP.Sb2.HS3.PSc	12,00				1,60		0,53	31,92
25	Welding Bottom Plate G ke H	20-31.BP.Sb2.HS3.PSg	12,00				1,60		0,53	31,92
26	Lifting Bilge Plate	20-31.BS.Sb2.HS3.SB		1,130		0,537	0,61		2	0,30 18,21
27	Fitting Bilge Plate ke Bottom Plate	20-31.BS.Sb2.HS3.SB	12,00			0,067	0,80		2	0,40 24,12
28	Welding Bilge Plate ke Bottom Plate	20-31.BS.Sb2.HS3.SB	24,00		0,133		3,19		2	1,60 95,76
29	Lifting Center Girder ke Bottom Panel	20-31.CG.Sb2.HS3		0,377		0,537	0,20		2	0,10 6,07
30	Fitting Center Girder ke Bottom Panel	20-31.CG.Sb2.HS3	6,00			0,067	0,40		1	0,40 24,12
31	Welding Center Girder ke Bottom Panel	20-31.CG.Sb2.HS3	12,00		0,133		1,60		1	1,60 95,76
32	Lifting Pondasi Mesin ke Bottom Panel	20-31.FP.Sb2.HS3		1,758		0,537	0,94		3	0,31 18,89
33	Fitting Pondasi Mesin ke Bottom Panel	20-31.FP.Sb2.HS3	28,00			0,067	1,88		2	0,94 56,28
34	Welding Pondasi Mesin ke Bottom Panel	20-31.FP.Sb2.HS3	56,00		0,133		7,45		3	2,48 148,96
35	Lifting Floor ke Bottom Panel	20-31.SF.Sb1.HS3.PS		5,445		0,537	2,92		3	0,97 58,48
36	Fitting Floor ke Bottom Panel	20-31.SF.Sb1.HS3.PS	84,00			0,067	5,63		3	1,88 112,56
37	Welding Floor ke Bottom Panel	20-31.SF.Sb1.HS3.PS	168,00		0,133		22,34		3	7,45 446,88
38	Welding Floor ke Girder	20-31.SF.Sb1.HS3.PS	120,00		0,133		15,96		3	5,32 319,20
39	Lifting Side Girder ke Bottom Panel	20-31.SG.Sb2.HS3.PS		1,105		0,537	0,59		2	0,30 17,81
40	Fitting Side Girder ke Bottom Panel	20-31.SG.Sb2.HS3.PS	24,00			0,067	1,61		2	0,80 48,24
41	Welding Side Girder ke Bottom Panel	20-31.SG.Sb2.HS3.PS	48,00		0,133		6,38		3	2,13 127,68
42	Lifting Face Plate of Center Girder dan Pondasi Mesin	20-31.FG.Sb2.HS3		1,654		0,537	0,89		2	0,44 26,65
43	Fitting Face Plate of Center Girder dan Pondasi Mesin	20-31.FG.Sb2.HS3	34,00			0,067	2,28		3	0,76 45,56
44	Welding Face Plate of Center Girder dan Pondasi Mesin	20-31.FG.Sb2.HS3	68,00		0,133		9,04		3	3,01 180,88
45	Lifting Face Plate of Floor	8-19.FF.Sb2.HS2		2,376		0,537	1,28		2	0,64 38,27
46	Fitting Face Plate of Floor	8-19.FF.Sb2.HS2	84,06			0,067	5,63		3	1,88 112,64
47	Welding Face Plate of Floor	8-19.FF.Sb2.HS2	168,12		0,133		22,36		3	7,45 447,20
48	Lifting Face Plate of Side Girder	20-31-19.FSG.Sb2.HS3		0,528		0,537	0,28		2	0,14 8,50
49	Fitting Face Plate of Side Girder	20-31-19.FSG.Sb2.HS3	28,00			0,067	1,88		2	0,94 56,28
50	Welding Face Plate of Side Girder	20-31-19.FSG.Sb2.HS3	28,00		0,133		3,72		2	1,86 111,72
JUMLAH			1136,18	18,753					50,22	3013,43



Sub-Block 3 (Panel Starboard Side)											
1	Lifting Pelat A	20-31.SP.Sb3.HS3.SB		0,565			0,537	0,30	2	0,152	9,105
	Lifting Pelat B	20-31.SP.Sb3.HS3.SB		0,358			0,537	0,19	2	0,096	5,767
2	Fitting Pelat A dan pelat B	20-31.SP.Sb3.HS3.SB	6,00			0,067		0,40	1	0,402	24,120
3	Welding Joint pelat A dan pelat B	20-31.SP.Sb3.HS3.SB	12,00		0,133			1,60	1	1,596	95,760
	Lifting Frame ke Side Plate	20.MF.Sb3.HS3.SB		0,025			0,537	0,01	2	0,007	0,404
		21.MF.Sb3.HS3.SB		0,025				0,01		0,007	0,404
		22.MF.Sb3.HS3.SB		0,025				0,01		0,007	0,404
		23.WF.Sb3.HS3.SB		0,073				0,04		0,020	1,183
		24.MF.Sb3.HS3.SB		0,025				0,01		0,007	0,408
		25.MF.Sb3.HS3.SB		0,025				0,01		0,007	0,409
		26.MF.Sb3.HS3.SB		0,026				0,01		0,007	0,411
		27.WF.Sb3.HS3.SB		0,075				0,04		0,020	1,205
		28.MF.Sb3.HS3.SB		0,026				0,01		0,007	0,413
		29.MF.Sb3.HS3.SB		0,026				0,01		0,007	0,421
		30.MF.Sb3.HS3.SB		0,026				0,01		0,007	0,421
	31.WF.Sb3.HS3.SB		0,075			0,04	0,020	1,216			
	Fitting Frame ke Side Plate	20.MF.Sb3.HS3.SB	2,35			0,067		0,16	2	0,079	4,725
		21.MF.Sb3.HS3.SB	2,35					0,16		0,079	4,725
		22.MF.Sb3.HS3.SB	2,35					0,16		0,079	4,724
		23.WF.Sb3.HS3.SB	2,34					0,16		0,078	4,699
		24.MF.Sb3.HS3.SB	2,37					0,16		0,079	4,766
		25.MF.Sb3.HS3.SB	2,38					0,16		0,080	4,785
		26.MF.Sb3.HS3.SB	2,39					0,16		0,080	4,805
		27.WF.Sb3.HS3.SB	2,38					0,16		0,080	4,789
		28.MF.Sb3.HS3.SB	2,40					0,16		0,080	4,825
		29.MF.Sb3.HS3.SB	2,45					0,16		0,082	4,925
		30.MF.Sb3.HS3.SB	2,45					0,16		0,082	4,925
	31.WF.Sb3.HS3.SB	2,40				0,16	0,081	4,830			
	Side Plate	20.MF.Sb3.HS3.SB	2,35		0,133			0,31	1	0,313	18,757
		21.MF.Sb3.HS3.SB	2,35					0,31		0,313	18,757
		22.MF.Sb3.HS3.SB	2,35					0,31		0,313	18,754
		23.WF.Sb3.HS3.SB	4,68					0,62		0,622	37,310
		24.MF.Sb3.HS3.SB	2,37					0,32		0,315	18,920
		25.MF.Sb3.HS3.SB	2,38					0,32		0,317	18,998
		26.MF.Sb3.HS3.SB	2,39					0,32		0,318	19,075
		27.WF.Sb3.HS3.SB	4,77					0,63		0,634	38,027
		28.MF.Sb3.HS3.SB	2,40					0,32		0,319	19,157
		29.MF.Sb3.HS3.SB	2,45					0,33		0,326	19,553
		30.MF.Sb3.HS3.SB	2,45					0,33		0,326	19,553
	31.WF.Sb3.HS3.SB	4,81				0,64	0,639	38,355			



Side Plate



	Lifting Bracket of Main Frame ke Main Frame	20-30.BM.Sb3.HS3.SB		0,049			0,537	0,03	1	0,026	1,569
	Lifting Cantilever ke Web Frame	23-31.CA.Sb3.HS3.SB		0,050			0,537	0,03	1	0,027	1,622
	Fitting Bracket of Main Frame ke Main Frame	20-30.BM.Sb3.HS3.SB	12,46			0,067		0,83	1	0,835	50,089
	Fitting Cantilever ke Web Frame	23-31.CA.Sb3.HS3.SB	14,49			0,067		0,97	1	0,971	58,248
	Welding Bracket of Main Frame ke Main Frame (atas)	20-30.BM.Sb3.HS3.SB	12,46		0,133			1,66	1	1,657	99,430
	Welding Cantilever ke Web Frame	23-31.CA.Sb3.HS3.SB	14,49		0,133			1,93	1	1,927	115,627
JUMLAH			136,26	1,475						13,52	811,38
<b>Sub-Block 4 (Panel Deck)</b>											
1	Lifting deck Plate A	20-31.DP.Sb4.HS3.Psa		0,669			0,537	0,36	3	0,12	7,19
2	Lifting deck Plate B	20-31.DP.Sb4.HS3.PSb		0,565		0,30		0,10		6,07	
3	Lifting Deck Plate C	20-31.DP.Sb4.HS3.PSc		0,565		0,30		0,10		6,07	
4	Lifting Deck Plate D	20-31.DP.Sb4.HS3.PSd		0,565		0,30		0,10		6,07	
5	Lifting deck Plate E	20-31.DP.Sb4.HS3.Pse		0,565		0,30		0,10		6,07	
6	Lifting deck Plate F	20-31.DP.Sb4.HS3.PSf		0,565		0,30		0,10		6,07	
7	Lifting Deck Plate G	20-31.DP.Sb4.HS3.PSg		0,565		0,30		0,10		6,07	
8	Lifting Deck Plate H	20-31.DP.Sb4.HS3.PSh		0,565		0,30		0,10		6,07	
9	Lifting Deck Plate I	20-31.DP.Sb4.HS3.Psi		0,669		0,36		0,12		7,19	
10	Fitting Deck Plate A Ke Deck Plate B	20-31.DP.Sb4.HS3.Psa	6,00			0,067	0,40	3	0,13	8,04	
11	Fitting Deck Plate B Ke Deck Plate C	20-31.DP.Sb4.HS3.PSb	6,00		0,40		0,13		8,04		
12	Fitting Deck Plate C Ke Deck Plate D	20-31.DP.Sb4.HS3.PSc	6,00		0,40		0,13		8,04		
13	Fitting Deck Plate D Ke Deck Plate E	20-31.DP.Sb4.HS3.PSd	6,00		0,40		0,13		8,04		
14	Fitting Deck Plate E Ke Deck Plate F	20-31.DP.Sb4.HS3.Pse	6,00		0,40		0,13		8,04		
15	Fitting Deck Plate F Ke Deck Plate G	20-31.DP.Sb4.HS3.PSf	6,00		0,40		0,13		8,04		
16	Fitting Deck Plate G Ke Deck Plate H	20-31.DP.Sb4.HS3.PSg	6,00		0,40		0,13		8,04		
17	Fitting Deck Plate H Ke Deck Plate I	20-31.DP.Sb4.HS3.PSh	6,00		0,40	0,13	8,04				
18	Welding Deck Plate A Ke Deck Plate B	20-31.DP.Sb4.HS3.Psa	12,00		0,133	1,60	3	0,53	31,92		
19	Welding Deck Plate B Ke Deck Plate C	20-31.DP.Sb4.HS3.PSb	12,00			1,60		0,53	31,92		
20	Welding Deck Plate C Ke Deck Plate D	20-31.DP.Sb4.HS3.PSc	12,00			1,60		0,53	31,92		
21	Welding Deck Plate D Ke Deck Plate E	20-31.DP.Sb4.HS3.PSd	12,00			1,60		0,53	31,92		
22	Welding Deck Plate E Ke Deck Plate F	20-31.DP.Sb4.HS3.Pse	12,00			1,60		0,53	31,92		
23	Welding Deck Plate F Ke Deck Plate G	20-31.DP.Sb4.HS3.PSf	12,00			1,60		0,53	31,92		
24	Welding Deck Plate G Ke Deck Plate H	20-31.DP.Sb4.HS3.PSg	12,00			1,60		0,53	31,92		
25	Welding Deck Plate H Ke Deck Plate I	20-31.DP.Sb4.HS3.PSh	12,00			1,60		0,53	31,92		



26	Lifting Girder & Transverse deck Beam Ke Deck Plate	20.TD.Sb4.HS3.PS		0,149			0,08	3	0,03	1,61
27		21.TD.Sb4.HS3.PS		0,149			0,08		0,03	1,61
28		22.TD.Sb4.HS3.PS		0,149			0,08		0,03	1,61
29		23.GD.Sb4.HS3.PS		0,440			0,24		0,08	4,72
30		24.TD.Sb4.HS3.PS		0,149			0,08		0,03	1,61
31		25.TD.Sb4.HS3.PS		0,149			0,08		0,03	1,61
32		26.TD.Sb4.HS3.PS		0,149			0,08		0,03	1,61
33		27.GD.Sb4.HS3.PS		0,440			0,24		0,08	4,72
34		28.TD.Sb4.HS3.SB		0,149			0,08		0,03	1,61
35		29.TD.Sb4.HS3.SB		0,149			0,08		0,03	1,61
36		30.TD.Sb4.HS3.SB		0,149			0,08		0,03	1,61
37	31.GD.Sb4.HS3.PS		0,440			0,24	0,08	4,72		
38	Fitting Girder & Transverse deck Beam Ke Deck Plate	20.TD.Sb4.HS3.PS	7,00				0,47	2	0,23	14,07
39		21.TD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
40		22.TD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
41		23.GD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
42		24.TD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
43		25.TD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
44		26.TD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
45		27.GD.Sb4.HS3.PS	7,00				0,47		0,23	14,07
46		28.TD.Sb4.HS3.SB	7,00				0,47		0,23	14,07
47		29.TD.Sb4.HS3.SB	7,00				0,47		0,23	14,07
48		30.TD.Sb4.HS3.SB	7,00				0,47		0,23	14,07
49	31.GD.Sb4.HS3.PS	7,00				0,47	0,23	14,07		
50	Welding Girder & Transverse deck Beam Ke Deck Plate	20.TD.Sb4.HS3.PS	7,00				0,93	3	0,31	18,62
51		21.TD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
52		22.TD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
53		23.GD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
54		24.TD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
55		25.TD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
56		26.TD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
57		27.GD.Sb4.HS3.PS	7,00				0,93		0,31	18,62
58		28.TD.Sb4.HS3.SB	7,00				0,93		0,31	18,62
		29.TD.Sb4.HS3.SB	7,00				0,93		0,31	18,62
		30.TD.Sb4.HS3.SB	7,00				0,93		0,31	18,62
	31.GD.Sb4.HS3.PS	7,00				0,93	0,31	18,62		
	al Deck Beam ke Deck Plate	20-31.ID.Sb4.HS3.PS		1,319			0,537	2	0,35	21,25
	al Deck Beam ke Deck Plate	20-31.ID.Sb4.HS3.PS	42,00			0,067	2,81	2	1,41	84,42
	inal Deck Beam ke Deck Plate	20-31.ID.Sb4.HS3.PS	84,00		0,133		11,17	3	3,72	223,44
	Deck Plate	20-31.BC.Sb4.HS3.PS		0,341			0,537	1	0,18	10,98



66	Fitting Bracket ke Deck Plate	20-31.BC.Sb4.HS3.PS	42,84			0,067		2,87	2	1,44	86,11
67	Welding Bracket ke Deck Plate	20-31.BC.Sb4.HS3.PS	42,84		0,133			5,70	3	1,90	113,95
68	Lifting Cantilever ke Panel Deck	47-55.BW.SB4.HS5.DS		0,050			0,537	0,03	1	0,027	1,622
69	Fitting Cantilever	47-55.BW.SB4.HS5.DS	3,598			0,067		0,24	1	0,241	14,463
70	Welding Cantilever ke Panel deck	47-55.BW.SB4.HS5.DS	3,598		0,133			0,48	1	0,479	28,711
71	Liftingng Pilar to Deck Panel	20-31.PL.Sb1.HS3.PS		0,204			0,537	0,11	1	0,11	6,57
72	Fitting Pilar to Deck Panel	20-31.PL.Sb1.HS3.PS	3,78			0,067		0,25	3	0,08	5,07
73	Welding Pilar to Deck Panel	20-31.PL.Sb1.HS3.PS	3,78		0,133			0,50	2	0,25	15,08
74	Lifting Bracket of Pilar ke Deck Panel	23.BP.SB4.HS3.DS		0,125			0,537	0,07	2	0,03	2,01
75	Fitting Bracket of Pilar	23.BP.SB4.HS3.DS	12,24			0,067		0,82	2	0,41	24,60
76	Welding Bracket of Pilar ke Deck Panel	23.BP.SB4.HS3.DS	24,48		0,133			3,26	2	1,63	97,68
JUMLAH			575,16	9,998						25,56	1533,39
<b>PERPIPAAN</b>											
<b>PERPIPAAN AIR TAWAR</b>											
	Lifting Pipa Diameter 3" + Komponen	20-31.AT.3.HS3.PSSB		0,50				0,06	3	0,02	1,22
	Fitting Pipa Diameter 3" + Komponen	20-31.AT.3.HS3.PSSB	40,29					34,08	2	17,04	1022,50
	Welding Pipa Diameter 3" + Komponen	20-31.AT.3.HS3.PSSB	40,29					8,54	1	8,54	512,46
	Lifting Pipa Diameter 4" + Komponen	20-31.AT.4.HS3.PSSB		0,08				0,01	3	0,00	0,19
	Fitting Pipa Diameter 4" + Komponen	20-31.AT.4.HS3.PSSB	4,31					3,64	2	1,82	109,31
	Welding Pipa Diameter 4" + Komponen	20-31.AT.4.HS3.PSSB	4,31					0,91	1	0,91	54,78
<b>PERPIPAAN AIR LAUT</b>											
	Lifting Pipa Diameter 3" + Komponen	20-31.AL.3.HS3.PSSB		0,28				0,03	3	0,01	0,69
	Fitting Pipa Diameter 3" + Komponen	20-31.AL.3.HS3.PSSB	7,27					6,15	2	3,08	184,62
	Welding Pipa Diameter 3" + Komponen	20-31.AL.3.HS3.PSSB	7,27					1,54	1	1,54	92,53
	Lifting Pipa Diameter 4" + Komponen	20-31.AL.3.HS3.PSSB		0,07				0,01	3	0,00	0,17
	Fitting Pipa Diameter 4" + Komponen	20-31.AL.3.HS3.PSSB	4,31					3,64	2	1,82	109,31
	Welding Pipa Diameter 4" + Komponen	20-31.AL.3.HS3.PSSB	4,31					0,91	1	0,91	54,78
	Lifting Pipa Diameter 10" + Komponen	20-31.AL.4.HS3.PSSB		0,71				0,09	3	0,03	1,75
	Fitting Pipa Diameter 10" + Komponen	20-31.AL.4.HS3.PSSB	13,43					11,37	2	5,68	340,96
	Welding Pipa Diameter 10" + Komponen	20-31.AL.4.HS3.PSSB	13,43					2,85	1	2,85	170,88
JUMLAH			139,22	1,63						44,27	2656,13



PERAKITAN HULL STRUCTURE 03											
NO i (2)	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	Lifting Sub-Block 1 (Portside)	HS3.PS		1,475			0,537	0,79	4	0,20	11,88
	Fitting Sub-Block 1 ke Sub Block 2 (Double Bottom)	HS3.PS	9,900			0,067		0,66	2	0,33	19,90
	Welding Side Plate ke Bilge Plate	HS3.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS3.PS	3,900		0,133			0,52	1	0,52	31,12
	JUMLAH		25,800	1,475						2,644	158,665
	Lifting Sub-Block 3 (Starboard Side)	HS3.SB		1,475			0,537	0,79	4	0,20	11,88
	Fitting Sub-Block 3 ke Sub Block 2 (Double Bottom)	HS3.SB	9,900			0,067		0,66	2	0,33	19,90
	Welding Side Plate ke Bilge Plate	HS3.SB	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	HS3.SB	3,900		0,133			0,52	1	0,52	31,12
	JUMLAH		25,800	1,475						2,644	158,665
	Lifting Sub-Block 4 (Deck)	HS3.DK		9,998			0,537	5,37	4	1,34	80,53
	Fitting Sub Block 4 ke Sb1, Sb2, dan Sb3	HS3.DK	31,800			0,067		2,13	3	0,71	42,61
	Welding deck Plate Sb4 ke Side Plate Sb1&3	HS3.DK	12,000		0,133			1,60	2	0,80	47,88
	Welding Bracket of Sb4 ke SB 1&3	HS3.DK	3,900		0,133			0,52	2	0,26	15,56
	Welding Pillar ke Sb2	HS3.DK	15,900		0,133			2,11	2	1,06	63,44
	Welding Bracket of Pillar ke Sb2	HS3.DK	12,000		0,133			1,60	1	1,60	95,76
	JUMLAH		75,600	9,998						5,763	345,785

PERHITUNGAN DURASI PERAKITAN BLOCK 4											
No	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	<b>Sub-Block 1 (Portside) Panel Deck</b>	1	2		3			4=2*3	5	6=4/5	7=6*60
1	Lifting Pelat Deck A	32-43.DP.SB1.HS4.PS		0,641			0,537	0,34	2	0,17	10,32
2	Lifting Pelat Deck B	32-43.DP.SB1.HS4.SB		0,565			0,537	0,30	2	0,15	9,11
3	Fitting Pelat A dan pelat B	32-43.DP.SB1.HS4.PS	6,00			0,067		0,40	1	0,40	24,12
4	Welding Joint pelat A dan pelat B	32-43.DP.SB1.HS4.PS	12,00		0,133			1,60	1	1,60	95,76



5		32.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
6		33.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
7		34.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
8		36.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
9		37.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
10	Lifting Girder and Trans. Deck Beam ke Deck Plate	38.TD.SB1.HS4.PS		0,036			0,537	0,02	2	0,01	0,58
11		39.GD.SB1.HS4.SB		0,106				0,06		0,03	1,70
12		40.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
13		41.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
14		42.TD.SB1.HS4.PS		0,036				0,02		0,01	0,58
15		43.GD.SB1.HS4.SB		0,106				0,06		0,03	1,70
16		32.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
17		33.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
18		34.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
19		36.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
20		37.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
21	Fitting Girder and Trans. Deck Beam ke Deck Plate	38.TD.SB1.HS4.PS	3,37			0,067		0,23	1	0,23	13,54
22		39.GD.SB1.HS4.SB	3,37					0,23		0,23	13,54
23		40.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
24		41.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
25		42.TD.SB1.HS4.PS	3,37					0,23		0,23	13,54
26		43.GD.SB1.HS4.SB	3,37					0,23		0,23	13,54
27		32.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
28		33.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
29		34.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
30		36.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
31		37.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
32	Welding Girder and Trans. Deck Beam ke Deck Plate	38.TD.SB1.HS4.PS	3,37		0,133			0,45	1	0,45	26,87
33		39.GD.SB1.HS4.SB	3,37					0,45		0,45	26,87
34		40.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
35		41.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
36		42.TD.SB1.HS4.PS	3,37					0,45		0,45	26,87
37		43.GD.SB1.HS4.SB	3,37					0,45		0,45	26,87
38	Deck Beam ke Deck Plate	32-43.LD.SB1.HS4.SB		0,188			0,537	0,10	2	0,05	3,04
39	Deck Beam Ke Deck Plate	32-43.LD.SB1.HS4.SB	6,00			0,067		0,40	1	0,40	24,12
40	al Deck Beam ke Deck Plate	32-43.LD.SB1.HS4.SB	12,00		0,133			1,60	1	1,60	95,76
	<b>JUMLAH</b>		110,07	1,929						11,92	715,28



Panel Side											
1	Lifting Side Plate A	18-26.SP.SB1.HS4.PS		0,565			0,537	0,30	2	0,15	9,11
2	Lifting Side Plate B	18-26.SP.SB1.HS4.PS		0,408			0,537	0,22	2	0,11	6,57
3	Fitting Side Plate A dan B	18-26.SP.SB1.HS4.PS	6,00			0,067		0,40	1	0,40	24,12
4	Welding Side Plate A ke Side Plate B	18-26.SP.SB1.HS4.PS	12,00		0,133			1,60	1	1,60	95,76
5	Lifting Frame Ke Side Plate	32.MF.SB1.HS4.PS		0,026			0,537	0,01	2	0,01	0,42
6		33.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
7		34.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
8		36.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
9		37.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
10		38.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
11		39.WF.SB1.HS4.PS		0,077		0,04		0,02		1,24	
12		40.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
13		41.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
14		42.MF.SB1.HS4.PS		0,026		0,01		0,01		0,42	
15	43.WF.SB1.HS4.PS		0,077		0,04	0,02	1,24				
16	Fitting Frame ke Side Plate	32.MF.SB1.HS4.PS	2,45			0,067	0,16	1	0,16	9,85	
17		33.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
18		34.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
19		36.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
20		37.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
21		38.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
22		39.WF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
23		40.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
24		41.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
25		42.MF.SB1.HS4.PS	2,45				0,16		0,16	9,85	
26	43.WF.SB1.HS4.PS	2,45			0,16	0,16	9,85				
27	Welding Frame Ke Side Plate	32.MF.SB1.HS4.PS	2,45		0,133		0,33	1	0,33	19,55	
28		33.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
29		34.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
30		36.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
31		37.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
32		38.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
33		39.WF.SB1.HS4.PS	4,90				0,65		0,65	39,11	
34		40.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
35		41.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
36		42.MF.SB1.HS4.PS	2,45				0,33		0,33	19,55	
37	43.WF.SB1.HS4.PS	4,90			0,65	0,65	39,11				



38	Lifting Bracket of Main Frame ke Main Frame	32-42.BM.SB1.HS4.PS		0,079			0,537	0,04	1	0,04	2,56
39	Lifting Cantilever ke Web Frame	39-43.BW.SB1.HS4.PS		0,034			0,537	0,02	1	0,02	1,08
40	Fitting Bracket of Main Frame ke Main Frame	32-42.BM.SB1.HS4.PS	12,46			0,067		0,83	1	0,83	50,09
41	Fitting Cantilever ke Web Frame	39-43.BW.SB1.HS4.PS	4,83			0,067		0,32	1	0,32	19,42
42	Welding Bracket of Main Frame ke Main Frame (atas)	32-42.BM.SB1.HS4.PS	5,40		0,133			0,72	1	0,72	43,07
43	Welding Bracket of Main Frame ke Main Frame (Bawah)	32-42.BM.SB1.HS4.PS	7,06		0,133			0,94	1	0,94	56,36
44	Welding Cantilever ke Web Frame	39-43.BW.SB1.HS4.PS	4,83		0,133			0,64	1	0,64	38,54
45	Lifting Stringer	32-43.SR.SB1.HS4.SB		0,141			0,537	0,08	2	0,04	2,28
46	Fitting Stringer ke Side Plate	32-43.SR.SB1.HS4.SB	4,00			0,067		0,27	1	0,27	16,08
47	Welding Stringer ke Side Plate	32-43.SR.SB1.HS4.SB	8,00		0,133			1,06	1	1,06	63,84
<b>JUMLAH</b>			123,38	1,617						13,29	797,68
<b>Panel Bulkhead</b>											
	Lifting Bulkhead Plate A	32-43.BPa.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
	Lifting Bulkhead Plate B	32-43.BPa.Sb1.HS4.PS		0,260			0,537	0,14	2	0,070	4,195
	Lifting Bulkhead Plate C	32-43.BPb.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
	Fitting Bulkhead Plate A, B, dan C	32-43.BPa.Sb1.HS4.PS	12,00			0,067		0,80	1	0,804	48,240
	Welding Bulkhead Plate A ke B	32-43.BPa.Sb1.HS4.PS	12,00		0,133			1,60	1	1,596	95,760
	Welding Bulkhead Plate B ke C	32-43.BPb.Sb1.HS4.PS	12,00		0,133			1,60	1	1,596	95,760
	Lifting Stiffener ke Bulkhead Panel	36.MS.Sb1.HS4.PS		0,026			0,537	0,01	2	0,007	0,421
		37.MS.Sb1.HS4.PS		0,026				0,01		0,007	0,421
		38.MS.Sb1.HS4.PS		0,026				0,01		0,007	0,421
		39.WS.Sb1.HS4.PS		0,077				0,04		0,021	1,239
		40.MS.Sb1.HS4.PS		0,026				0,01		0,007	0,421
		41.MS.Sb1.HS4.PS		0,026				0,01		0,007	0,421
		42.MS.Sb1.HS4.PS		0,026				0,01		0,007	0,421
		43.WS.Sb1.HS4.PS		0,077				0,04		0,021	1,239
	Fitting Stiffener ke Bulkhead Panel	36.MS.Sb1.HS4.PS	2,45			0,067		0,16	1	0,164	9,850
		37.MS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		38.MS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		39.WS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		40.MS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		41.MS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		42.MS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
		43.WS.Sb1.HS4.PS	2,45					0,16		0,164	9,850
	Welding Stiffener ke Bulkhead Panel	36.MS.Sb1.HS4.PS	2,45		0,133			0,33	1	0,326	19,553
		37.MS.Sb1.HS4.PS	2,45					0,33		0,326	19,553
		38.MS.Sb1.HS4.PS	2,45					0,33		0,326	19,553
		39.WS.Sb1.HS4.PS	4,90					0,65		0,652	39,106
		40.MS.Sb1.HS4.PS	2,45					0,33		0,326	19,553
		41.MS.Sb1.HS4.PS	2,45					0,33		0,326	19,553
		42.MS.Sb1.HS4.PS	2,45					0,33		0,326	19,553
		43.WS.Sb1.HS4.PS	4,90					0,65		0,652	39,106



	Lifting Bracket of Stiffener ke Stiffener	32-42.BS.Sb1.HS4.PS		0,032		0,537	0,02	1	0,017	1,046
	Lifting Cantilever ke Stiffener	39-43.BW.Sb1.HS4.PS		0,034		0,537	0,02	1	0,018	1,081
	Fitting Bracket of Stiffener ke Stiffener	32-42.BS.Sb1.HS4.PS	8,79		0,067		0,59	1	0,589	35,327
	Fitting Cantilever ke Stiffener	39-43.BW.Sb1.HS4.PS	4,83	0,133			0,32	1	0,324	19,416
	Welding Bracket of Stiffener ke Stiffener (Atas)	32-42.BS.Sb1.HS4.PS	5,40	0,133			0,72	1	0,718	43,066
	Welding Bracket of Stiffener ke Stiffener (Bawah)	32-42.BS.Sb1.HS4.PS	3,39	0,133			0,45	1	0,451	27,061
	Welding Cantilever ke Stiffener	39-43.BW.Sb1.HS4.PS	4,83	0,133			0,64	1	0,642	38,542
	Lifting Stringer	32-43.SR.Sb3.HS4.SB		0,141		0,537	0,08	2	0,038	2,276
	Fitting Stringer ke Bulkhead Plate	32-43.SR.Sb3.HS4.SB	4,00		0,067		0,27	1	0,268	16,080
	Welding Stringer ke Bulkhead Plate	32-43.SR.Sb3.HS4.SB	8,00	0,133			1,06	1	1,064	63,840
<b>JUMLAH</b>			119,34	1,909					13,15	789,23
<b>Panel Bottom</b>										
1	Lifting Inner Bottom Plate A	36-43.IB.Sb1.HS4.PS		0,424		0,537	0,23	2	0,114	6,829
2	Lifting Inner Bottom Plate B	36-43.IB.Sb1.HS4.PS		0,424		0,537	0,23	2	0,114	6,829
3	Lifting Inner Bottom Plate C	36-43.IB.Sb1.HS4.PS		0,125		0,537	0,07	2	0,034	2,012
4	Fitting Inner Bottom Plate A, B, dan C	36-43.IB.Sb1.HS4.PS	9,00		0,067		0,60	2	0,302	18,090
5	Welding Inner Bottom Plate A ke B	36-43.IB.Sb1.HS4.PS	9,00	0,133			1,20	1	1,197	71,820
6	Welding Inner Bottom Plate B ke C	36-43.IB.Sb1.HS4.PS	9,00	0,133			1,20	1	1,197	71,820
7	Lifting Floor c ke Inner Bottom Panel	32-43.SF.Sb1.HS5.PS		1,520		0,537	0,82	3	0,272	16,327
8	Fitting Floor c ke Inner Bottom Panel	32-43.SF.Sb1.HS5.PS	37,84		0,067		2,54	2	1,268	76,058
9	Welding Floor c ke Inner Bottom Panel	32-43.SF.Sb1.HS5.PS	75,68	0,133			10,07	3	3,355	201,309
10	Lifting Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS		0,377		0,537	0,20	2	0,101	6,070
11	Fitting Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS	4,50		0,067		0,30	2	0,151	9,045
12	Welding Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS	9,00	0,133			1,20	1	1,197	71,820
13	Welding Side Girder ke Floor	32-43.SG.Sb1.HS4.PS	23,76	0,133			3,16	2	1,580	94,802
14	Lifting Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS		0,565		0,537	0,30	2	0,152	9,105
15	Fitting Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS	33,00		0,067		2,21	2	1,106	66,330
16	Welding Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS	66,00	0,133			8,78	2	4,389	263,340
17	Lifting Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS		0,301		0,537	0,16	2	0,081	4,856
18	Fitting Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS	8,80		0,067		0,59	2	0,295	17,688
19	Welding Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS	17,60	0,133			2,34	2	1,170	70,224
20	Lifting Bilge Plate ke Floor c	32-43.BP.Sb1.HS4.PS		0,565		0,537	0,30	2	0,152	9,105
21	Fitting Bilge Plate ke Floor c	32-43.BP.Sb1.HS4.PS	33,00		0,067		2,21	2	1,106	66,330
22	Welding Bilge Plate ke Floor c	32-43.BP.Sb1.HS4.PS	66,00	0,133			8,78	2	4,389	263,340
23	Welding Bottom Plate A Ke Bottom Plate B	32-43.BP.Sb1.HS4.PS	12,00	0,133			1,60	1	1,596	95,760
24	Welding Side Girder ke Bottom Plate	32-43.SG.Sb1.HS4.PS	12,00	0,133			1,60	1	1,596	95,760
25	Welding Bottom Plate A ke Bilge Plate	32-43.BP.Sb1.HS4.PS	12,00	0,133			1,60	1	1,596	95,760
26	Lifting Trans. Bulkhead Plate	35.BP.SB1.HS4.PS		0,335		0,537	0,18	2	0,090	5,396
27	Fitting Trans. Bulkhead Plate	35.BP.SB1.HS4.PS	17,11		0,067		1,15	2	0,573	34,383
28	Welding Trans. Bulkhead Plate ke Bottom Plate	35.BP.SB1.HS4.PS	7,60	0,133			1,01	1	1,011	60,648
29	Welding Trans. Bulkhead Plate ke Side Girder	35.BP.SB1.HS4.PS	2,64	0,133			0,35	1	0,351	21,067
	Welding Trans. Bulkhead Plate ke Inner Bottom Plate	35.BP.SB1.HS4.PS	6,87	0,133			0,91	1	0,913	54,791
<b>JUMLAH</b>			472,39	4,637					31,45	1886,72





<b>Panel Trans. Bulkhead</b>											
Lifting TBH Plate A	35.BP.SB1.HS4.PS			0,154			0,537	0,08	2	0,041	2,487
Lifting TBH Plate B	35.BP.SB1.HS4.PS			0,377			0,537	0,20	2	0,101	6,070
Fitting Plate A ke B	35.BP.SB1.HS4.PS	4,50				0,067		0,30	1	0,302	18,090
Welding Plate A ke B	35.BP.SB1.HS4.PS	9,00			0,133			1,20	1	1,197	71,820
Lifting Stiffener of Trans. Bulkhead	54.MS.Sb3.HS5.SB			0,138			0,537	0,07	2	0,037	2,219
Fitting Stiffener ke Bulkhead Panel	54.MS.Sb3.HS5.SB	12,90				0,067		0,86	1	0,864	51,858
Welding Stiffener ke Bulkhead Panel	54.MS.Sb3.HS5.SB	12,90			0,133			1,72	1	1,716	102,942
Lifting Web Stiffener of Trans. Bulkhead	32-43.SG.Sb1.HS4.SB			0,188			0,537	0,10	2	0,050	3,025
Fitting Web Stiffener ke Bulkhead Panel	32-43.SG.Sb1.HS4.SB	11,96				0,067		0,80	1	0,801	48,079
Welding Web Stiffener ke Bulkhead Panel	32-43.SG.Sb1.HS4.SB	23,92			0,133			3,18	1	3,181	190,882
Lifting Bracket of Stiffener	54.MS.Sb3.HS5.SB			0,027			0,537	0,01	1	0,015	0,872
Fitting Bracket Ke Stiffener	35.BP.SB1.HS4.PS	1,70				0,067		0,11	1	0,114	6,834
Welding Bracket ke Stiffener	35.BP.SB1.HS4.PS	1,70			0,133			0,23	1	0,226	13,566
Lifting Cantilever ke Web Stiffener	32-43.SG.Sb1.HS4.SB			0,067			0,537	0,04	1	0,036	2,163
Fitting Cantilever Ke Web Stiffener	54.MS.Sb3.HS5.SB	3,36				0,067		0,23	1	0,225	13,507
Welding Cantilever ke Stiffener	54.MS.Sb3.HS5.SB	3,36			0,133			0,45	1	0,447	26,813
<b>JUMLAH</b>		85,30		0,951						9,35	561,23
Lifting Panel Bulkhead	SB1.PS.HS4			1,909			0,537	1,03	3	0,342	20,502
Fitting Panel Bulkhead ke Panel Bottom	SB1.PS.HS4	12,62				0,067		0,85	2	0,423	25,372
Welding Floor ke Panel Bulkhead	SB1.PS.HS4	12,87			0,133			1,71	2	0,856	51,351
Welding Inner Botton ke Panel Bulkhead	SB1.PS.HS4	9,00			0,133			1,20	1	1,197	71,820
Welding Bracket dan Cantilever ke Inner Bottom	SB1.PS.HS4	1,69			0,133			0,22	1	0,225	13,470
<b>JUMLAH</b>		36,18		1,909						3,04	182,52
Lifting Panel Side	SB1.PS.HS4			1,617			0,537	0,87	3	0,289	17,365
Fitting Panel Side ke Panel Bottom	SB1.PS.HS4	10,69				0,067		0,72	2	0,358	21,483
Welding Side Plate ke Bilge Plate	SB1.PS.HS4	9,00			0,133			1,20	1	1,197	71,820
Welding Bracket dan Cantilever ke Inner Bottom	SB1.PS.HS4	1,69			0,133			0,22	1	0,225	13,470
<b>JUMLAH</b>		21,38		1,617						2,07	124,14
Lifting Panel Trans. Bulkhead	SB1.PS.HS4			0,951			0,537	0,51	3	0,170	10,212
Fitting Panel Trans. Bulkhead	SB1.PS.HS4	22,05				0,067		1,48	2	0,739	44,321
Welding Panel Trans. Bulkhead ke Panel Bottom	SB1.PS.HS4	18,50			0,133			2,46	1	2,461	147,630
Welding Panel Trans. Bulkhead ke Panel Bulkhead	SB1.PS.HS4	7,40			0,133			0,98	1	0,984	59,052
Welding Panel Trans. Bulkhead ke Panel Side	SB1.PS.HS4	5,40			0,133			0,72	1	0,718	43,092
<b>JUMLAH</b>		53,35		0,95						5,07	304,31
Lifting Panel Deck	SB1.PS.HS4			1,929			0,537	1,04	3	0,345	20,719
Fitting Panel Deck	SB1.PS.HS4	12,77				0,067		0,86	3	0,285	17,109
Welding Bracket dan Cantilever ke Deck Beam	SB1.PS.HS5	2,77			0,133			0,37	1	0,368	22,089
Welding deck Plate ke Side Plate	SB1.PS.HS5	12,00			0,133			1,60	1	1,596	95,760
Welding Deck Plate ke Trans. Bulkhead Plate	SB1.PS.HS6	8,00			0,133			1,06	1	1,064	63,840
<b>JUMLAH</b>		35,54		1,93						3,66	219,52



Panel Inner Bottom											
1	Lifting Keel Plate	32-43.KP.Sb1.HS4		0,848			0,537	0,46	2	0,228	13,658
2	Lifting Bottom Plate A	32-43.BP.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
3	Lifting Bottom Plate B	32-43.BP.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
4	Lifting Bottom Plate C	32-43.BP.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
5	Lifting Bottom Plate D	32-43.BP.Sb1.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
6	Fitting Bottom Plate A ke B	32-43.BP.Sb1.HS4.PS	6,00		0,067			0,40	2	0,201	12,060
7	Fitting Bottom Plate B ke Keel Plate	32-43.BP.Sb1.HS4.PS	6,00		0,067			0,40	2	0,201	12,060
8	Fitting Keel Plate ke Bottom plate C	32-43.BP.Sb1.HS4.PS	6,00		0,067			0,40	2	0,201	12,060
9	Fitting Bottom Plate C ke D	32-43.BP.Sb1.HS4.PS	6,00		0,067			0,40	2	0,201	12,060
10	Welding Bottom Plate A ke B	32-43.BP.Sb1.HS4.PS	12,00		0,133			1,60	2	0,798	47,880
11	Welding Bottom Plate B ke Keel Plate	32-43.BP.Sb1.HS4.PS	12,00		0,133			1,60		0,798	47,880
12	Welding Keel Plate ke Bottom plate C	32-43.BP.Sb1.HS4.PS	12,00		0,133			1,60		0,798	47,880
13	Welding Bottom Plate C ke D	32-43.BP.Sb1.HS4.PS	12,00		0,133			1,60		0,798	47,880
14	Lifting Center Girder	32-43.CG.Sb1.HS4		0,377			0,537	0,20	2	0,101	6,070
15	Fitting Center Girder ke Bottom Panel	32-43.CG.Sb1.HS4	6,00		0,067			0,40	2	0,201	12,060
16	Welding Center Girder ke Inner Botom	32-43.CG.Sb1.HS4	12,00		0,133			1,60	1	1,596	95,760
17	Lifting Bottom frame dan Bracket open Floor	32-43.RF.Sb1.HS4.PS		2,201			0,537	1,18	2	0,591	35,450
18	Fitting Bottom Frame dan Bracket Open Floor	32-43.F.Sb2.HS4.DB	39,19		0,067			2,63	2	1,313	78,764
19	Welding Bottom Frame ke Bottom Panel	32-43.RF.Sb1.HS4.PS	47,70		0,133			6,34	2	3,172	190,323
20	Welding Bracket Open Floor Ke Bottom Panel	32-43.F.Sb2.HS4.DB	15,34		0,133			2,04	1	2,040	122,381
	Lifting Bracket of Stiffener	32.BS.Sb2.HS4.DB		0,019			0,537	0,01	1	0,010	0,627
	Fitting Bracket of Stiffener ke Bottom Frame	32.BS.Sb2.HS4.DB	2,70		0,067			0,18	1	0,181	10,854
	Welding Bracket of Stiffener	32.BS.Sb2.HS4.DB	2,70		0,133			0,36	1	0,359	21,546
	Lifting Stiffener	32.SF.Sb2.HS4.DB		0,169			0,537	0,09	1	0,091	5,435
	Fitting Stiffener	32.SF.Sb2.HS4.DB	1,69		0,067			0,11	1	0,113	6,802
	Welding Stiffener ke Bracket of Stiffener	32.SF.Sb2.HS4.DB	1,69		0,133			0,23	1	0,225	13,502
22	Lifting Solid Floor	32-43.SGa.Sb2.HS4.DB		1,033			0,537	0,55	3	0,185	11,093
23	Fitting Solid Floor ke Bottom Panel	32-43.SGa.Sb2.HS4.DB	20,93		0,067			1,40	2	0,701	42,065
24	Welding Solid Floor ke Bottom Panel	32-43.SGa.Sb2.HS4.DB	41,86		0,133			5,57	2	2,783	167,005
25	Welding Solid Floor ke Center Girder	32-43.SGa.Sb2.HS4.DB	6,00		0,133			0,80	1	0,798	47,880
	Lifting Side Girder	32-43.SG.Sb1.HS4.PS		0,754			0,537	0,40	2	0,202	12,140
	Fitting Side Girde	32-43.SG.Sb1.HS4.PS	16,00		0,067			1,07	2	0,536	32,160
	Welding Side Girder ke Bottom Panel	32-43.SG.Sb1.HS4.PS	24,00		0,133			3,19	1	3,192	191,520
	Welding Side Girder ke Solid Floor	32-43.SG.Sb1.HS4.PS	16,00		0,133			2,13	2	1,064	63,840
27	Lifting Trans. Bulkhead Plate	35.BP.Sb1.HS4.PS		1,890			0,537	1,01	2	0,507	30,449
28	Fitting Trans. Bulkhead Plate ke Bottom Panel	35.BP.Sb1.HS4.PS	3,46		0,067			0,23	2	0,116	6,955
29	Welding Trans. Bulkhead Plate ke Bottom Panel	35.BP.Sb1.HS4.PS	6,92		0,133			0,92	1	0,920	55,222
29	Welding Trans. Bulkhead Plate ke Center Girder	35.BP.Sb1.HS4.PS	6,00		0,133			0,80	1	0,798	47,880
<b>JUMLAH</b>			342,17	9,55	113,966					26,63	1597,62



Panel Bottom										
1	Lifting Pelat Inner Bottom A	32-43.IB.Sb1.HS4.PS		0,351		0,537	0,19	2	0,09	5,66
2	Lifting Pelat Inner Bottom B	32-43.IB.Sb1.HS4.SB		0,424		0,537	0,23	2	0,11	6,83
3	Lifting Pelat Inner Bottom C	32-43.IB.Sb1.HS4.PS		0,424		0,537	0,23	2	0,11	6,83
4	Lifting Pelat Inner Bottom D	32-43.IB.Sb1.HS4.SB		0,424		0,537	0,23	2	0,11	6,83
5	Lifting Pelat Inner Bottom E	32-43.IB.Sb1.HS4.PS		0,351		0,537	0,19	2	0,09	5,66
6	Fitting Pelat Inner Bottom A ke B	32-43.IB.Sb1.HS4.SB	4,50		0,067		0,30	1	0,30	18,09
7	Fitting Pelat Inner Bottom B ke C	32-43.IB.Sb1.HS4.PS	4,50		0,067		0,30	1	0,30	18,09
8	Fitting Pelat Inner Bottom C ke D	32-43.IB.Sb1.HS4.SB	4,50		0,067		0,30	1	0,30	18,09
9	Fitting Pelat Inner Bottom D ke E	32-43.IB.Sb1.HS4.PS	4,50		0,067		0,30	1	0,30	18,09
10	Welding Pelat Inner Bottom A ke B	32-43.IB.Sb1.HS4.SB	9,00		0,133		1,20	2	0,60	35,91
11	Welding Pelat Inner Bottom B ke C	32-43.IB.Sb1.HS4.PS	9,00		0,133		1,20		0,60	35,91
12	Welding Pelat Inner Bottom C ke D	32-43.IB.Sb1.HS4.SB	9,00		0,133		1,20		0,60	35,91
13	Welding Pelat Inner Bottom D ke E	32-43.IB.Sb1.HS4.PS	9,00		0,133		1,20		0,60	35,91
14	Lifting Reserv Frame	35.ST.Sb1.HS4.PS		0,393		0,537	0,21	2	0,11	6,33
15	Fitting Bottom Frame ke Panel Inner Bottom	35.ST.Sb1.HS4.PS	23,85		0,067		1,60	2	0,80	47,94
16	Welding Bottom Frame Ke Panel Inner Bottom	35.ST.Sb1.HS4.PS	47,70		0,133		6,34	2	3,17	190,32
14	Lifting Bracket of Stiffener	35.ST.Sb1.HS4.PS		0,019		0,537	0,01	1	0,01	0,63
15	Fitting Bracket of Stiffener ke Bottom Frame	35.ST.Sb1.HS4.PS	2,70		0,067		0,18	1	0,18	10,85
16	Welding Bracket	35.ST.Sb1.HS4.PS	2,70		0,133		0,36	1	0,36	21,55
<b>JUMLAH</b>			130,95	2,39					8,21	492,40
Lifting Bottom Panel										
	Lifting Bottom Panel	SB2.SB.HS4		2,387		0,537	1,28	3	0,43	25,64
	Fitting Bottom Panel ke Inner Bottom Panel	SB2.SB.HS4	14,52		0,067		0,97	3	0,32	19,46
	Welding Center Girder ke Inner Bottom Panel	SB2.SB.HS4	9,00		0,133		1,20	1	1,20	71,82
	Welding Side Girder ke Inner Bottom Plate	SB2.SB.HS4	9,00		0,133		1,20	2	0,60	35,91
	Welding Bracket Open Floor Ke Inner Bottom	SB2.SB.HS4	2,78		0,133		0,37	1	0,37	22,15
	Welding Bracket of Stiffener ke Inner Bottom	SB2.SB.HS4	1,69		0,133		0,23	1	0,23	13,50
	Welding Solid Floor ke Inner Bottom	SB2.SB.HS4	13,88		0,133		1,85	3	0,62	36,92
<b>JUMLAH</b>			50,87	2,387					3,76	225,40
<b>Sub-Block 3 (Starboard Side)</b>										
<b>Panel Deck</b>										
	Lifting Pelat Deck H	32-43.DP.Sb4.HS4.PS		0,641		0,537	0,34	2	0,17	10,32
	Lifting Pelat Deck I	32-43.DP.Sb4.HS4.SB		0,565		0,537	0,30	2	0,15	9,11
	Fitting Pelat H dan pelat I	32-43.DP.Sb4.HS4.PS	6,00		0,067		0,40	1	0,40	24,12
	Welding Joint pelat H dan pelat I	32-43.DP.Sb4.HS4.SB	12,00		0,133		1,60	1	1,60	95,76
		32.TD.Sb4.HS4.PS		0,036		0,537	0,02	2	0,01	0,58
		33.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		34.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		36.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		37.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		38.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		39.GD.Sb4.HS4.SB		0,106			0,06		0,03	1,70
		40.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		41.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		42.TD.Sb4.HS4.PS		0,036			0,02		0,01	0,58
		43.GD.Sb4.HS4.SB		0,106			0,06		0,03	1,70

s. Deck Beam ke Deck Plate



		32.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		33.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		34.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		36.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		37.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
	Fitting Girder and Trans. Deck Beam ke Deck Plate	38.TD.Sb4.HS4.PS	3,37			0,067	0,23	1	0,23	13,54
		39.GD.Sb4.HS4.SB	3,37				0,23		0,23	13,54
		40.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		41.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		42.TD.Sb4.HS4.PS	3,37				0,23		0,23	13,54
		43.GD.Sb4.HS4.SB	3,37				0,23		0,23	13,54
		32.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		33.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		34.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		36.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		37.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
	Welding Girder and Trans. Deck Beam ke Deck Plate	38.TD.Sb4.HS4.PS	3,37			0,133	0,45	1	0,45	26,87
		39.GD.Sb4.HS4.SB	3,37				0,45		0,45	26,87
		40.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		41.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		42.TD.Sb4.HS4.PS	3,37				0,45		0,45	26,87
		43.GD.Sb4.HS4.SB	3,37				0,45		0,45	26,87
	Lifting Longitudinal Deck Beam ke Deck Plate	32-43.LD.Sb4.HS4.SB		0,188			0,537	2	0,10	3,04
	Fitting Longitudinal Deck Beam Ke Deck Plate	32-43.LD.Sb4.HS4.SB	6,00			0,067	0,40	1	0,40	24,12
	Welding Longitudinal Deck Beam ke Deck Plate	32-43.LD.Sb4.HS4.SB	12,00		0,133		1,60	1	1,60	95,76
	<b>JUMLAH</b>		110,07	1,929					11,92	715,28
	<b>Panel Side</b>									
	Lifting Side Plate A	32-43.SP.Sb3.HS4.SB		0,565			0,537	2	0,152	9,105
	Lifting Side Plate B	32-43.SS.Sb3.HS4.SB		0,408			0,537	2	0,110	6,574
	Fitting Side Plate A dan B	32-43.SP.Sb3.HS4.SB	6,00			0,067	0,40	1	0,402	24,120
	Welding Side Plate A ke Side Plate B	32-43.SP.Sb3.HS4.SB	12,00		0,133		1,60	1	1,596	95,760
		32.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		33.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		34.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		36.BM.Sb2.HS4.PS		0,026			0,01		0,007	0,421
		37.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
	Lifting Frame Ke Side Plate	38.BM.Sb3.HS4.SB		0,026			0,01	2	0,007	0,421
		39.BW.Sb3.HS4.SB		0,077			0,04		0,021	1,239
		40.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		41.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		42.BM.Sb3.HS4.SB		0,026			0,01		0,007	0,421
		43.BW.Sb3.HS4.SB		0,077			0,04		0,021	1,239
		32.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		33.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		34.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		36.BM.Sb2.HS4.PS	2,45				0,16		0,164	9,850
		37.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		38.BM.Sb3.HS4.SB	2,45			0,067	0,16	1	0,164	9,850
		39.BW.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		40.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		41.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		42.BM.Sb3.HS4.SB	2,45				0,16		0,164	9,850
		43.BW.Sb3.HS4.SB	2,45				0,16		0,164	9,850



		32.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		33.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		34.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		36.BM.Sb2.HS4.PS	2,45				0,33		0,326	19,553	
		37.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		38.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		39.BW.Sb3.HS4.SB	4,90				0,65		0,652	39,106	
		40.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		41.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		42.BM.Sb3.HS4.SB	2,45				0,33		0,326	19,553	
		43.BW.Sb3.HS4.SB	4,90				0,65		0,652	39,106	
		Lifting Bracket of Main Frame ke Main Frame	32-42.BM.Sb3.HS4.SB		0,079		0,537	0,04	1	0,043	2,559
		Lifting Cantilever ke Web Frame	39-43.BW.Sb3.HS4.SB		0,034		0,537	0,02	1	0,018	1,081
		Fitting Bracket of Main Frame ke Main Frame	32-42.BM.Sb3.HS4.SB	12,46		0,067		0,83	1	0,835	50,089
		Fitting Cantilever ke Web Frame	39-43.BW.Sb3.HS4.SB	4,83		0,067		0,32	1	0,324	19,416
		Welding Bracket of Main Frame ke Main Frame (atas)	32-42.BM.Sb3.HS4.SB	5,40		0,133		0,72	1	0,718	43,066
		Welding Bracket of Main Frame ke Main Frame (Bawah)	32-42.BM.Sb3.HS4.SB	7,06		0,133		0,94	1	0,939	56,364
		Welding Cantilever ke Web Frame	39-43.BW.Sb3.HS4.SB	4,83		0,133		0,64	1	0,642	38,542
		Lifting Stringer	32-43.SR.Sb3.HS4.SB		0,141		0,537	0,08	2	0,038	2,276
		Fitting Stringer ke Side Plate	32-43.SR.Sb3.HS4.SB	4,00		0,067		0,27	1	0,268	16,080
		Welding Stringer ke Side Plate	32-43.SR.Sb3.HS4.SB	8,00		0,133		1,06	1	1,064	63,840
		<b>JUMLAH</b>		123,38	1,617					13,29	797,68
		<b>Panel Bulkhead</b>									
		Lifting Bulkhead Plate A	32-43.BPa.Sb3.HS4.SB		0,565		0,537	0,30	2	0,152	9,105
		Lifting Bulkhead Plate B	32-43.BPb.Sb3.HS4.SB		0,260		0,537	0,14	2	0,070	4,195
		Lifting Bulkhead Plate C	32-43.BPa.Sb3.HS4.SB		0,565		0,537	0,30	2	0,152	9,105
		Fitting Bulkhead Plate A, B, dan C	32-43.BPa.Sb3.HS4.SB	12,00		0,067		0,80	1	0,804	48,240
		Welding Bulkhead Plate A ke B	32-43.BPb.Sb3.HS4.SB	12,00		0,133		1,60	1	1,596	95,760
		Welding Bulkhead Plate B ke C	32-43.BPa.Sb3.HS4.SB	12,00		0,133		1,60	1	1,596	95,760
			36.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			37.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			38.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			39.W.S.Sb3.HS4.SB		0,077			0,04		0,021	1,239
			40.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			41.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			42.MS.Sb3.HS4.SB		0,026			0,01		0,007	0,421
			43.W.S.Sb3.HS4.SB		0,077			0,04		0,021	1,239
			36.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			37.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			38.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			39.W.S.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			40.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			41.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			42.MS.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			43.W.S.Sb3.HS4.SB	2,45				0,16		0,164	9,850
			36.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			37.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			38.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			39.W.S.Sb3.HS4.SB	4,90				0,65		0,652	39,106
			40.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			41.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			42.MS.Sb3.HS4.SB	2,45				0,33		0,326	19,553
			43.W.S.Sb3.HS4.SB	4,90				0,65		0,652	39,106



	Lifting Bracket of Stiffener ke Stiffener	32-42.BS.Sb3.HS4.SB		0,032		0,537	0,02	1	0,017	1,046
	Lifting Cantilever ke Stiffener	39-43.BW.Sb3.HS4.SB		0,034		0,537	0,02	1	0,018	1,081
	Fitting Bracket of Stiffener ke Stiffener	32-42.BS.Sb3.HS4.SB	8,79		0,067		0,59	1	0,589	35,327
	Fitting Cantilever ke Stiffener	39-43.BW.Sb3.HS4.SB	4,83		0,133		0,32	1	0,324	19,416
	Welding Bracket of Stiffener ke Stiffener (Atas)	32-42.BS.Sb3.HS4.SB	5,40		0,133		0,72	1	0,718	43,066
	Welding Bracket of Stiffener ke Stiffener (Bawah)	32-42.BS.Sb3.HS4.SB	3,39		0,133		0,45	1	0,451	27,061
	Welding Cantilever ke Stiffener	39-43.BW.Sb3.HS4.SB	4,83		0,133		0,64	1	0,642	38,542
	Lifting Stringer	32-43.SR.Sb3.HS4.SB		0,141		0,537	0,08	2	0,038	2,276
	Fitting Stringer ke Bulkhead Plate	32-43.SR.Sb3.HS4.SB	4,00		0,067		0,27	1	0,268	16,080
	Welding Stringer ke Bulkhead Plate	32-43.SR.Sb3.HS4.SB	8,00		0,133		1,06	1	1,064	63,840
	<b>JUMLAH</b>		119,34	1,909					13,15	789,23
	<b>Panel Bottom</b>									
1	Lifting Inner Bottom Plate I	32-43.IB.Sb1.HS4.PS		0,424		0,537	0,23	2	0,114	6,829
2	Lifting Inner Bottom Plate J	32-43.IB.Sb1.HS4.SB		0,424		0,537	0,23	2	0,114	6,829
3	Lifting Inner Bottom Plate K	32-43.IB.Sb1.HS4.PS		0,125		0,537	0,07	2	0,034	2,012
4	Fitting Inner Bottom Plate I, J, dan K	32-43.IB.Sb1.HS4.PS	9,00		0,067		0,60	2	0,302	18,090
5	Welding Inner Bottom Plate I ke J	32-43.IB.Sb1.HS4.SB	9,00		0,133		1,20	1	1,197	71,820
6	Welding Inner Bottom Plate J ke K	32-43.IB.Sb1.HS4.PS	9,00		0,133		1,20	1	1,197	71,820
7	Lifting Floor c ke Inner Bottom Panel	32-43.SF.Sb3.HS4.SB		1,520		0,537	0,82	3	0,272	16,327
8	Fitting Floor c ke Inner Bottom Panel	32-43.SF.Sb3.HS4.SB	37,84		0,067		2,54	2	1,268	76,058
9	Welding Floor c ke Inner Bottom Panel	32-43.SF.Sb3.HS4.SB	75,68		0,133		10,07	3	3,355	201,309
10	Lifting Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS		0,377		0,537	0,20	2	0,101	6,070
11	Fitting Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS	4,50		0,067		0,30	2	0,151	9,045
12	Welding Side Girder ke Inner Bottom	32-43.SG.Sb1.HS4.PS	9,00		0,133		1,20	1	1,197	71,820
13	Welding Side Girder ke Floor	32-43.SG.Sb1.HS4.PS	23,76		0,133		3,16	2	1,580	94,802
14	Lifting Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS		0,565		0,537	0,30	2	0,152	9,105
15	Fitting Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS	33,00		0,067		2,21	2	1,106	66,330
16	Welding Bottom Plate B ke Floor c	32-43.BP.Sb1.HS4.PS	66,00		0,133		8,78	2	4,389	263,340
17	Lifting Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS		0,301		0,537	0,16	2	0,081	4,856
18	Fitting Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS	8,80		0,067		0,59	2	0,295	17,688
19	Welding Bottom Plate A ke Floor c	32-43.BP.Sb1.HS4.PS	17,60		0,133		2,34	2	1,170	70,224
20	Lifting Bilge Plate ke Floor c	32-43.BG.Sb1.HS4.PS		0,565		0,537	0,30	2	0,152	9,105
21	Fitting Bilge Plate ke Floor c	32-43.BG.Sb1.HS4.PS	33,00		0,067		2,21	2	1,106	66,330
22	Welding Bilge Plate ke Floor c	32-43.BG.Sb1.HS4.PS	66,00		0,133		8,78	2	4,389	263,340
23	Welding Bottom Plate G Ke Bottom Plate H	32-43.BP.Sb1.HS4.PS	12,00		0,133		1,60	1	1,596	95,760
24	Welding Side Girder ke Bottom Plate	32-43.SG.Sb1.HS4.PS	6,000		0,133		0,80	1	1,596	95,760
24	Welding Bottom Plate H ke Bilge Plate	32-43.BP.Sb1.HS4.PS	12,00		0,133		1,60	1	1,596	95,760
25	Lifting Trans. Bulkhead Plate	35.BPa.Sb4.HS4.SB		0,335		0,537	0,18	1	0,090	5,396
26	Fitting Trans. Bulkhead Plate	35.BPa.Sb4.HS4.SB	17,11		0,067		1,15	2	0,573	34,383
27	Welding Trans. Bulkhead Plate ke Bottom Plate	35.BPa.Sb4.HS4.SB	7,60		0,133		1,01	2	1,011	60,648
28	Welding Trans. Bulkhead Plate ke Side Girder	35.BPa.Sb4.HS4.SB	2,64		0,133		0,35	1	0,351	21,067
	Welding Trans. Bulkhead Plate ke Inner Bottom Plate	35.BPa.Sb4.HS4.SB	6,87		0,133		0,91	1	0,913	54,791



PERPIPAAN											
PERPIPAAN AIR TAWAR											
Lifting Pipa Diameter 3" + Komponen	32-43.AT.3.HS4.PSSB		0,09			0,123	0,01	2	0,01	0,33	
Fitting Pipa Diameter 3" + Komponen	32-43.AT.3.HS4.PSSB	7,83			0,846		6,63	1	6,63	397,64	
Welding Pipa Diameter 3" + Komponen	32-43.AT.3.HS4.PSSB	7,83		0,212			1,66	2	0,83	49,82	
<b>JUMLAH</b>			482,06	4,73						38,91	2334,50
<b>Panel Trans. Bulkhead</b>											
Lifting TBH Plate A	35.BPa.Sb4.HS4.SB		0,154			0,537	0,08	2	0,041	2,487	
Lifting TBH Plate B	35.BPb.Sb4.HS4.SB		0,377			0,537	0,20	2	0,101	6,070	
Fitting Plate A ke B	35.BPa.Sb4.HS4.SB	4,50			0,067		0,30	1	0,302	18,090	
Welding Plate A ke B	35.BPa.Sb4.HS4.SB	9,00		0,133			1,20	1	1,197	71,820	
Lifting Stiffener of Trans. Bulkhead	44.MS.Sb4.HS4.SB		0,138			0,537	0,07	2	0,037	2,219	
Fitting Stiffener ke Bulkhead Panel	44.MS.Sb4.HS4.SB	12,90			0,067		0,86	1	0,864	51,858	
Welding Stiffener ke Bulkhead Panel	44.MS.Sb4.HS4.SB	12,90		0,133			1,72	1	1,716	102,942	
Lifting Web Stiffener of Trans. Bulkhead	47.WS.Sb4.HS4.SB		0,188			0,537	0,10	2	0,050	3,025	
Fitting Web Stiffener ke Bulkhead Panel	47.WS.Sb4.HS4.SB	11,96			0,067		0,80	1	0,801	48,079	
Welding Web Stiffener ke Bulkhead Panel	47.WS.Sb4.HS4.SB	23,92		0,133			3,18	1	3,181	190,882	
Lifting Bracket of Stiffener	35.BS.Sb4.HS4.DS		0,027			0,537	0,01	1	0,015	0,872	
Fitting Bracket Ke Stiffener	35.BS.Sb4.HS4.DS	1,70			0,067		0,11	1	0,114	6,834	
Welding Bracket ke Stiffener	35.BS.Sb4.HS4.DS	1,70		0,133			0,23	1	0,226	13,566	
Lifting Cantilever ke Web Stiffener	35.WS.Sb4.HS4.DS		0,067			0,537	0,04	1	0,036	2,163	
Fitting Cantilever Ke Web Stiffener	35.WS.Sb4.HS4.DS	3,36			0,067		0,23	1	0,225	13,507	
Welding Cantilever ke Stiffener	35.WS.Sb4.HS4.DS	3,36		0,133			0,45	1	0,447	26,813	
<b>JUMLAH</b>			85,30	0,951						9,35	561,23
<b>Lifting Panel Bulkhead</b>											
Lifting Panel Bulkhead	SB3.SB.HS4		1,91			0,537	1,03	4	0,256	15,376	
Fitting Panel Bulkhead ke Panel Bottom	SB3.SB.HS4	12,62			0,067		1,68	3	0,560	33,577	
Welding Floor ke Panel Bulkhead	SB3.SB.HS4	12,87		0,133			1,71	2	0,856	51,351	
Welding Inner Botton ke Panel Bulkhead	SB3.SB.HS4	9,00		0,133			1,20	1	1,197	71,820	
Welding Bracket dan Cantilever ke Inner Bottom	SB3.SB.HS4	1,69		0,133			0,22	1	0,225	13,470	
<b>JUMLAH</b>			36,18	1,909						3,09	185,60
<b>Lifting Panel Side</b>											
Lifting Panel Side	SB3.SB.HS4		1,62			0,537	0,87	4	0,217	13,024	
Fitting Panel Side ke Panel Bottom	SB3.SB.HS4	10,69			0,067		1,42	2	0,711	42,645	
Welding Side Plate ke Bilge Plate	SB3.SB.HS4	9,00		0,133			1,20	1	1,197	71,820	
Welding Bracket dan Cantilever ke Inner Bottom	SB3.SB.HS4	1,69		0,133			0,22	1	0,225	13,470	
<b>JUMLAH</b>			21,38	1,617						2,35	140,96
<b>Lifting Panel Trans. Bulkhead</b>											
Lifting Panel Trans. Bulkhead	SB3.SB.HS4		0,95			0,537	0,51	3	0,170	10,212	
Fitting Panel Trans. Bulkhead	SB3.SB.HS4	22,05			0,067		2,93	3	0,978	58,653	
Welding Panel Trans. Bulkhead ke Panel Bottom	SB3.SB.HS4	18,50		0,133			2,46	1	2,461	147,630	
Welding Panel Trans. Bulkhead ke Panel Bulkhead	SB3.SB.HS4	7,40		0,133			0,98	1	0,984	59,052	
Welding Panel Trans. Bulkhead ke Panel Side	SB3.SB.HS4	5,40		0,133			0,72	1	0,718	43,092	
<b>JUMLAH</b>			128,57	6,094						5,31	318,64
<b>Lifting Panel Trans. Bulkhead</b>											
Lifting Panel Trans. Bulkhead	SB3.SB.HS4		1,93			0,537	1,04	4	0,259	15,539	
Fitting Panel Trans. Bulkhead	SB3.SB.HS4	12,77			0,067		1,70	3	0,566	33,963	
Cantilever ke Deck Beam	SB3.SB.HS4	2,77		0,133			0,37	1	0,368	22,089	
Side Plate	SB3.SB.HS4	12,00		0,133			1,60	1	1,596	95,760	
Trans. Bulkhead Plate	SB3.SB.HS4	8,00		0,133			1,06	1	1,064	63,840	
<b>JUMLAH</b>			35,54	1,929						3,85	231,19



Sub-Block 4 (Deck) Panel Deck											
1	Lifting Pelat Deck C	32-43.DP.Sb4.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
2	Lifting Pelat Deck D	32-43.DP.Sb4.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
3	Lifting Pelat Deck E	32-43.DP.Sb4.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
4	Lifting Pelat Deck F	32-43.DP.Sb4.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
5	Lifting Pelat Deck G	32-43.DP.Sb4.HS4.PS		0,565			0,537	0,30	2	0,152	9,105
6	Fitting Pelat C, D, E, F, dan G	32-43.DP.Sb4.HS4.PS	24,00			0,067		1,61	3	0,536	32,160
7	Welding Joint pelat C dan pelat D	32-43.DP.Sb4.HS4.PS	12,00			0,133		1,60	2	0,798	47,880
8	Welding Joint pelat D dan pelat E	32-43.DP.Sb4.HS4.PS	12,00			0,133		1,60		0,798	47,880
9	Welding Joint pelat E dan pelat F	32-43.DP.Sb4.HS4.PS	12,00			0,133		1,60		0,798	47,880
10	Welding Joint pelat F dan pelat G	32-43.DP.Sb4.HS4.PS	12,00			0,133		1,60		0,798	47,880
11	Lifting Girder and Trans. Deck Beam ke Deck Plate	32.TD.Sb4.HS4.PS		0,075			0,537	0,04	2	0,020	1,204
12		33.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
13		34.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
14		36.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
15		37.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
16		38.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
17		39.GD.Sb4.HS4.DS		0,220			0,537	0,12		0,059	3,541
18		40.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
19		41.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
20		42.TD.Sb4.HS4.PS		0,075			0,537	0,04		0,020	1,204
21		43.GD.Sb4.HS4.DS		0,220			0,537	0,12		0,059	3,541
22	Fitting Girder and Trans. Deck Beam ke Deck Plate	32.TD.Sb4.HS4.PS	7,00			0,067		0,47	2	0,235	14,070
23		33.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
24		34.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
25		36.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
26		37.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
27		38.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
28		39.GD.Sb4.HS4.DS	7,00			0,067		0,47		0,235	14,070
29		40.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
30		41.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
31		42.TD.Sb4.HS4.PS	7,00			0,067		0,47		0,235	14,070
32		43.GD.Sb4.HS4.DS	7,00			0,067		0,47		0,235	14,070
33	Welding Girder and Trans. Deck Beam ke Deck Plate	32.TD.Sb4.HS4.PS	7,00		0,133			0,93	3	0,310	18,620
34		33.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
35		34.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
36		36.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
37		37.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
38		38.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
39		39.GD.Sb4.HS4.DS	7,00		0,133			0,93		0,310	18,620
		40.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
		41.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
		42.TD.Sb4.HS4.PS	7,00		0,133			0,93		0,310	18,620
		43.GD.Sb4.HS4.DS	7,00		0,133			0,93		0,310	18,620





44	Lifting Longitudinal Deck Beam ke Deck Plate	32-43.ID.Sb4.HS4.PS		0,565		0,537	0,30	2	0,152	9,105
45	Fitting Longitudinal Deck Beam Ke Deck Plate	32-43.ID.Sb4.HS4.PS	48,00		0,067		3,22	2	1,608	96,480
46	Welding Longitudinal Deck Beam ke Deck Plate	32-43.ID.Sb4.HS4.PS	48,00		0,133		6,38	1	6,384	383,040
47	Lifting Bracket Trans. Deck Beam	32-43.BD.SB4.HS4.DS		0,049		0,537	0,03	1	0,026	1,569
48	Fitting Bracket Trans. Deck Beam	32-43.BD.SB4.HS4.DS	17,58		0,067		1,18	1	1,178	70,654
49	Welding Bracket Trans. Deck Beam	32-43.BD.SB4.HS4.DS	17,58		0,133		2,34	1	2,338	140,253
50	Lifting Cantilever ke Panel Deck	47-55.BW.SB4.HS5.DS		0,038		0,537	0,02	1	0,020	1,212
51	Fitting Cantilever	47-55.BW.SB4.HS5.DS	2,399		0,067		0,16	1	0,161	9,642
52	Welding Cantilever ke Panel deck	47-55.BW.SB4.HS5.DS	2,399		0,133		0,32	1	0,319	19,140
53	Lifting Pilar to Deck Panel	32-43.PL.Sb4.HS4.PS		0,136		0,537	0,07	3	0,024	1,459
54	Fitting Pilar to Deck Panel	32-43.PL.Sb4.HS4.PS	2,520		0,067		0,17	3	0,056	3,377
55	Welding Pilar to Deck Panel	32-43.PL.Sb4.HS4.PS	2,520		0,133		0,34	1	0,335	20,110
56	Lifting Bracket of Pilar ke Deck Panel	55.BW.SB4.HS5.DS		0,083		0,537	0,04	1	0,045	2,685
57	Fitting Bracket of Pilar	55.BW.SB4.HS5.DS	8,160		0,067		0,55	1	0,547	32,803
58	Welding Bracket of Pilar ke Deck Panel	55.BW.SB4.HS5.DS	16,320		0,133		2,17	1	2,171	130,234
<b>JUMLAH</b>			391,47	4,809					26,14	1568,48
<b>Panel Trans. Bulkhead</b>										
	Lifting Bulkhead Plate A	35.BPa.Sb4.HS4.SB		0,565		0,537	0,30	2	0,152	9,105
	Lifting Bulkhead Plate B	35.BPb.Sb4.HS4.SB		0,264		0,537	0,14	2	0,071	4,249
	Fitting Bulkhead Plate A & B	35.BPa.Sb4.HS4.SB	6,00		0,067		0,40	2	0,201	12,060
	Welding Bulkhead Plate A & B	35.BPb.Sb4.HS4.SB	12,00		0,133		1,60	1	1,596	95,760
	Lifting Stiffener of Trans. Bulkhead	44.MS.Sb4.HS4.SB		0,242		0,537	0,13	2	0,065	3,897
	Fitting Stiffener of Trans. Bulkhead	44.MS.Sb4.HS4.SB	11,33		0,067		0,76	2	0,380	22,773
	Welding Stiffener of Trans. Bulkhead	44.MS.Sb4.HS4.SB	22,66		0,133		3,01	2	1,507	90,413
	Lifting Web Stiffener of Trans. Bulkhead	47.WS.Sb4.HS4.SB		3,452		0,537	1,85	2	0,927	55,620
	Fitting Web Stiffener of Trans. Bulkhead	47.WS.Sb4.HS4.SB	11,46		0,067		0,77	2	0,384	23,031
	Welding Web Stiffener of Trans. Bulkhead	47.WS.Sb4.HS4.SB	11,46		0,133		1,52	1	1,524	91,435
	Lifting Bracket	35.BS.Sb4.HS4.DS		0,054		0,537	0,03	1	0,029	1,743
	Fitting Bracket	35.BS.Sb4.HS4.DS	3,40		0,067		0,23	1	0,228	13,668
	Welding Bracket	35.BS.Sb4.HS4.DS	3,40		0,133		0,45	1	0,452	27,132
	Lifting Cantilever	35.WS.Sb4.HS4.DS		0,168		0,537	0,09	1	0,090	5,407
	Fitting Cantilever	35.WS.Sb4.HS4.DS	8,40		0,067		0,56	1	0,563	33,768
	Welding Cantilever	35.WS.Sb4.HS4.DS	8,40		0,133		1,12	1	1,117	67,032
<b>JUMLAH</b>			98,51	4,745					9,28	557,09
	Lifting Panel Trans. Bulkhead	SB4.DK.HS4		4,745		0,537	2,55	3	0,849	50,965
	Fitting Panel Trans. Bulkhead ke Panel Deck	SB4.DK.HS4	8,70		0,067		0,58	3	0,194	11,661
	Welding Bulkhead Plate ke Panel Deck	SB4.DK.HS4	12,00		0,133		1,60	1	1,596	95,760
	Welding Bracket dan Cantilever ke Panel deck	SB4.DK.HS4	2,70		0,133		0,36	1	0,359	21,562
<b>JUMLAH</b>			23,40	4,745					3,00	179,95



PERAKITAN HULL STRUCTURE 04											
KEGIATAN i (2)	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
	Lifting Sub-Block 1 (Portside)	HS4.PS		11,042			0,537	5,93	4	1,48	88,95
	Fitting Sub-Block 1 ke Sub Block 2 (Double Bottom)	HS4.PS	18,804			0,067		1,26	2	0,63	37,80
	Welding Bottom Plate Sb1 ke Sb2	HS4.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Inner Bottom Sb2	HS4.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Floor Sb2	HS4.PS	13,608		0,133			1,81	2	0,90	54,30
	JUMLAH		56,412	11,042						6,209	372,558
	Lifting Sub-Block 3 (Starboard Side)	HS.4.SB		11,042			0,537	5,93	4	1,48	88,95
	Fitting Sub-Block 3 ke Sub Block 2 (Double Bottom)	HS.4.SB	18,804			0,067		1,26	2	0,63	37,80
	Welding Bottom Plate Sb3 ke Sb2	HS.4.SB	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Inner Bottom Sb2	HS.4.SB	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Floor Sb2	HS.4.SB	13,608		0,133			1,81	2	0,90	54,30
	JUMLAH		56,412	11,042						6,209	372,558
	Lifting Sub-Block 4 (Deck)	HS4.DK		9,554			0,537	5,13	4	1,28	76,96
	Fitting Sub Block 4 ke Sb1, Sb2, dan Sb3	HS4.DK	44,196			0,067		2,96	3	0,99	59,22
	Welding deck Plate Sb4 ke Deck Plate Sb1&3	HS4.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Deck Plate ke Bulkhead Plate Sb1&3	HS4.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Bracket of Sb4 ke SB 1&3	HS4.DK	4,080		0,133			0,54	1	0,54	32,56
	Welding Trans. Bulkhead ke Sb1, Sb2, & Sb3	HS4.DK	26,992		0,133			3,59	2	1,79	107,70
	Welding Pillar ke Sb2	HS4.DK	2,520		0,133			0,34	2	0,17	10,05
	Welding Bracket of Pillar ke Sb2	HS4.DK	5,440		0,133			0,72	1	0,72	43,41
	JUMLAH		131,228	9,554						8,690	521,424



HS5											
KEGIATAN	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENTIT
(2)			(m)	(ton)	JO/unit	JO/unit	JO/unit			6=4/5	7=6*60
	<b>Sub-Block 1 (Portside) Panel Deck</b>	1	2		3			4=2*3	5	6=4/5	7=6*60
1	Lifting Pelat Deck A	44-55.DPA.Sb1.HS5.PS		0,641			0,537	0,34	2	0,17	10,32
2	Lifting Pelat Deck B	44-55.DPA.Sb1.HS5.PS		0,565			0,537	0,30		0,15	9,11
3	Fitting Pelat A dan pelat B	44-55.DPA.Sb1.HS5.PS	6,000			0,067		0,40	1	0,40	24,12
4	Welding Joint pelat A dan pelat B	44-55.DPA.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
5	Lifting Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb1.HS5.PS		0,036			0,537	0,02	2	0,01	0,58
6		45.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
7		46.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
8		47.GD.Sb1.HS5.PS		0,106				0,06		0,03	1,70
9		48.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
10		49.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
11		50.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
12		51.GD.Sb1.HS5.PS		0,106				0,06		0,03	1,70
13		52.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
14		53.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
15		54.TD.Sb1.HS5.PS		0,036				0,02		0,01	0,58
16	55.GD.Sb1.HS5.PS		0,106			0,06	0,03	1,70			



17		44.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
18		45.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
19		46.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
20		47.GD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
21		48.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
22	Fitting Girder and Trans. Deck Beam ke Deck Plate	49.TD.Sb1.HSS.PS	3,367				0,067	0,23	1	0,23	13,54			
23		50.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
24		51.GD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
25		52.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
26		53.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
27		54.TD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
28		55.GD.Sb1.HSS.PS	3,367					0,23		0,23	13,54			
29			44.TD.Sb1.HSS.PS	3,367							0,45		0,45	26,87
30			45.TD.Sb1.HSS.PS	3,367							0,45		0,45	26,87
31			46.TD.Sb1.HSS.PS	3,367							0,45		0,45	26,87
32		47.GD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
33		48.TD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
34	Welding Girder and Trans. Deck Beam ke Deck Plate	49.TD.Sb1.HSS.PS	3,367				0,133	0,45	1	0,45	26,87			
35		50.TD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
36		51.GD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
37		52.TD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
38		53.TD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
39		54.TD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
40		55.GD.Sb1.HSS.PS	3,367					0,45		0,45	26,87			
41		Lifting Longitudinal Deck Beam ke Deck Plate	47.LD.Sb1.HSS.PS		0,188					0,537	0,10	1	0,10	6,07
42		Fitting Longitudinal Deck Beam Ke Deck Plate	47.LD.Sb1.HSS.PS	6,000				0,067			0,40	1	0,40	24,12
43		Welding Longitudinal Deck Beam ke Deck Plate	47.LD.Sb1.HSS.PS	12,000		0,133					1,60	1	1,60	95,76
44	Lifting Bracket of Deck Beam	44-54.BM.Sb1.HSS.PS		0,049			0,537	0,03	1	0,03	1,57			
45	Fitting Bracket of Deck beam	44-54.BM.Sb1.HSS.PS	10,793			0,067		0,72	1	0,72	43,39			
46	Welding Bracket of Deck Beam	44-54.BM.Sb1.HSS.PS	10,793		0,133			1,44	1	1,44	86,13			
<b>JUMLAH</b>			116,81	2,08						14,86	891,51			
<b>Panel Side</b>														
1	Lifting Side Plate A	44-55.SPA.Sb1.HSS.PS		0,565			0,537	0,30	2	0,15	9,11			
2	Lifting Side Plate B	44-55.SPA.Sb1.HSS.PS		0,408			0,537	0,22		0,11	6,57			
3	Fitting Side Plate A dan B	44-55.SPA.Sb1.HSS.PS	6,000			0,067		0,40	1	0,40	24,12			
4	Welding Side Plate A ke Side Plate B	44-55.SPA.Sb1.HSS.PS	12,000		0,133			1,60	1	1,60	95,76			
5		44.MF.Sb1.HSS.PS		0,026				0,01	2	0,01	0,42			
6		45.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
7		46.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
8		47.WF.Sb1.HSS.PS		0,077				0,04		0,02	1,24			
9		48.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
10	Lifting Frame Ke Side Plate	49.MF.Sb1.HSS.PS		0,026			0,537	0,01		0,01	0,42			
11		50.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
12		51.WF.Sb1.HSS.PS		0,077				0,04		0,02	1,24			
13		52.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
		53.MF.Sb1.HSS.PS		0,026				0,01		0,01	0,42			
		54.MF.Sb1.HSS.PS		0,026				0,01	0,01	0,42				
		55.WF.Sb1.HSS.PS		0,077				0,04	0,02	1,24				



17		44.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
18		45.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
19		46.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
20		47.WF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
21		48.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
22	Fitting Frame ke Side Plate	49.MF.Sb1.HS5.PS	2,259			0,067		0,15	1	0,15	9,08
23		50.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
24		51.WF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
25		52.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
26		53.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
27		54.MF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
28		55.WF.Sb1.HS5.PS	2,259					0,15		0,15	9,08
29		44.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
30		45.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
31		46.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
32		47.WF.Sb1.HS5.PS	4,600					0,61		0,61	36,71
33		48.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
34	Welding Frame Ke Side Plate	49.MF.Sb1.HS5.PS	2,259			0,133		0,30	1	0,30	18,03
35		50.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
36		51.WF.Sb1.HS5.PS	4,600					0,61		0,61	36,71
37		52.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
38		53.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
39		54.MF.Sb1.HS5.PS	2,259					0,30		0,30	18,03
40		55.WF.Sb1.HS5.PS	4,600					0,61		0,61	36,71
41	Lifting Bracket of Main Frame ke Main Frame	44-54.BM.Sb1.HS5.PS		0,079			0,537	0,04	1	0,04	2,56
42	Lifting Cantilever ke Web Frame	47-55.BW.Sb1.HS5.PS		0,050			0,537	0,03	1	0,03	1,62
43	Fitting Bracket of Main Frame ke Main Frame	44-54.BM.Sb1.HS5.PS	12,460			0,067		0,83	1	0,83	50,09
44	Fitting Cantilever ke Web Frame	47-55.BW.Sb1.HS5.PS	7,245			0,067		0,49	1	0,49	29,12
45	Welding Bracket of Main Frame ke Main Frame	44-54.BM.Sb1.HS5.PS	12,460		0,133			1,66	1	1,66	99,43
46	Welding Cantilever ke Web Frame	47-55.BW.Sb1.HS5.PS	7,245		0,133			0,96	1	0,96	57,81
47	Lifting Stringger	44-55.SR.Sb1.HS5.PS		0,132			0,537	0,07	2	0,04	2,12
48	Fitting Stringger ke Side Plate	44-55.SR.Sb1.HS5.PS	6,000			0,067		0,40	1	0,40	24,12
49	Welding Stringger ke Side Plate	44-55.SR.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
<b>JUMLAH</b>			136,656	1,701						14,785	887,093
<b>Panel Bulkhead</b>											
1	Lifting Bulkhead Plate A	44-55.BPa.Sb1.HS5.PS		0,565			0,537	0,30	2	0,15	9,11
2	Lifting Bulkhead Plate B	44-55.BPb.Sb1.HS5.PS		0,260			0,537	0,14	2	0,07	4,19
3	Lifting Bulkhead Plate C	44-55.BPa.Sb1.HS5.PS		0,565			0,537	0,30	2	0,15	9,11
4	Fitting Bulkhead Plate A ke B	44-55.BPa.Sb1.HS5.PS	6,000			0,067		0,40	1	0,40	24,12
	Fitting Bulkhead Plate B ke C	44-55.BPa.Sb1.HS5.PS	6,000				0,067	0,40	1	0,40	24,12
5	Welding Bulkhead Plate A ke B	44-55.BPa.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
6	Welding Bulkhead Plate B ke C	44-55.BPb.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
		44.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		45.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		46.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		47.WS.Sb1.HS5.PS		0,077				0,04		0,02	1,24
		48.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		49.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		50.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		51.WS.Sb1.HS5.PS		0,077				0,04		0,02	1,24
		52.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		53.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		54.ST.Sb1.HS5.PS		0,026				0,01		0,01	0,42
		55.WS.Sb1.HS5.PS		0,077				0,04		0,02	1,24



head Panel

8	Fitting Stiffener ke Bulkhead Panel	44.ST.Sb1.HS5.PS	2,259				0,15	1	0,15	9,08
		45.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		46.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		47.WS.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		48.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		49.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		50.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		51.WS.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		52.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		53.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
		54.ST.Sb1.HS5.PS	2,259				0,15		0,15	9,08
55.WS.Sb1.HS5.PS	2,259				0,15	0,15	9,08			
9	Welding Stiffener ke Bulkhead Panel	44.ST.Sb1.HS5.PS	2,259				0,30	1	0,30	18,03
		45.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		46.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		47.WS.Sb1.HS5.PS	4,600				0,61		0,61	36,71
		48.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		49.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		50.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		51.WS.Sb1.HS5.PS	4,600				0,61		0,61	36,71
		52.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		53.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
		54.ST.Sb1.HS5.PS	2,259				0,30		0,30	18,03
55.WS.Sb1.HS5.PS	4,600				0,61	0,61	36,71			
17	Lifting Stringger	44-55.SR.Sb1.HS5.PS		0,132		0,537	0,07	2	0,04	2,12
18	Fitting Stringger ke Side Plate	44-55.SR.Sb1.HS5.PS	6,000			0,067	0,40	1	0,40	24,12
19	Welding Stringger ke Side Plate	44-55.SR.Sb1.HS5.PS	12,000		0,133		1,60	1	1,60	95,76
10	Lifting Bracket of Stiffener ke Stiffener	44-54.BS.Sb1.HS5.PS		0,049		0,537	0,03	1	0,03	1,57
11	Lifting Cantilever ke Stiffener	47-55.WB.Sb1.HS5.PS		0,050		0,537	0,03	1	0,03	1,62
12	Fitting Bracket of Stiffener ke Stiffener	44-54.BS.Sb1.HS5.PS	8,788			0,067	0,59	1	0,59	35,33
13	Fitting Cantilever ke Stiffener	47-55.WB.Sb1.HS5.PS	7,245			0,067	0,49	1	0,49	29,12
14	Welding Bracket of Stiffener ke Stiffener	44-54.BS.Sb1.HS5.PS	8,788		0,133		1,17	1	1,17	70,13
16	Welding Cantilever ke Stiffener	47-55.WB.Sb1.HS5.PS	7,245		0,133		0,96	1	0,96	57,81
<b>JUMLAH</b>			147,311	2,088					16,144	968,643
<b>Panel Bottom</b>										
1	Lifting Inner Bottom Plate A	44-55.IBa.Sb1.HS5.PS		0,565		0,537	0,30	2	0,15	9,11
2	Lifting Inner Bottom Plate B	44-55.IBb.Sb1.HS5.PS		0,565		0,537	0,30	2	0,15	9,11
3	Lifting Inner Bottom Plate C	44-55.IBc.Sb1.HS5.PS		0,167		0,537	0,09	2	0,04	2,68
4	Fitting Inner Bottom Plate A, B, dan C	44-55.IBa.Sb1.HS5.PS	12,000			0,067	0,80	1	0,80	48,24
5	Welding Inner Bottom Plate A ke B	44-55.IBa.Sb1.HS5.PS	12,000		0,133		1,60	1	1,60	95,76
6	Welding Inner Bottom Plate B ke C	44-55.IBb.Sb1.HS5.PS	12,000		0,133		1,60	1	1,60	95,76
7	Lifting Floor c ke Inner Bottom Panel	44-55.SF.Sb1.HS5.PS		1,520		0,537	0,82	2	0,41	24,49
8	Fitting Floor c ke Inner Bottom Panel	44-55.SF.Sb1.HS5.PS	41,280			0,067	2,77	2	1,38	82,97
9	Welding Floor c ke Inner Bottom Panel	44-55.SF.Sb1.HS5.PS	82,560		0,133		10,98	3	3,66	219,61
10	Lifting Side Girder ke Inner Bottom	44-55.SG.Sb1.HS5.PS		0,377		0,537	0,20	2	0,10	6,07
	er Bottom	44-55.SG.Sb1.HS5.PS	6,000			0,067	0,40	1	0,40	24,12
	ner Bottom	44-55.SG.Sb1.HS5.PS	12,000		0,133		1,60	1	1,60	95,76
	oor	44-55.SG.Sb1.HS5.PS	32,160		0,133		4,28	2	2,14	128,32
	Floor c	44-55.BPb.Sb1.HS5.PS		0,301		0,537	0,16	2	0,08	4,86
	Floor c	44-55.BPb.Sb1.HS5.PS	36,000			0,067	2,41	2	1,21	72,36
	ke Floor c	44-55.BPb.Sb1.HS5.PS	36,000		0,133		4,79	2	2,39	143,64
	Floor c	44-55.BPa.Sb1.HS5.PS		0,565		0,537	0,30	2	0,15	9,11
	Floor c	44-55.BPa.Sb1.HS5.PS	19,200			0,067	1,29	1	1,29	77,18
	ke Floor c	44-55.BPa.Sb1.HS5.PS	19,200		0,133		2,55	2	1,28	76,61
	or c	44-55.BS.Sb1.HS5.PS		0,565		0,537	0,30	2	0,15	9,11



21	Fitting Bilge Plate ke Floor c	44-55.BS.Sb1.HS5.PS	26,088			0,067		1,75	1	1,75	104,87
22	Welding Bilge Plate ke Floor c	44-55.BS.Sb1.HS5.PS	26,088		0,133			3,47	2	1,73	104,09
23	Welding Bottom Plate A Ke Bottom Plate B	44-55.BPa.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
24	Welding Side Girder ke Bottom Plate	44-55.SG.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
25	Welding Bottom Plate A ke Bilge Plate	44-55.BPa.Sb1.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
<b>JUMLAH</b>			408,576	4,626						28,852	1731,100
	Lifting Panel Bulkhead	SB1.PS		2,088			0,537	1,12	3	0,37	22,42
	Fitting Panel Bulkhead ke Panel Bottom	SB1.PS	17,328			0,067		1,16	2	0,58	34,83
	Welding Floor ke Panel Bulkhead	SB1.PS	17,592		0,133			2,34	2	1,17	70,19
	Welding Inner Botton ke Panel Bulkhead	SB1.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	SB1.PS	2,532		0,133			0,34	1	0,34	20,21
<b>JUMLAH</b>			49,452	2,088						4,057	243,411
	Lifting Panel Side	SB1.PS		1,701			0,537	0,91	3	0,30	18,27
	Fitting Panel Side ke Panel Bottom	SB1.PS	14,532			0,067		0,97	2	0,49	29,21
	Welding Side Plate ke Bilge Plate	SB1.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bracket dan Cantilever ke Inner Bottom	SB1.PS	2,532		0,133			0,34	1	0,34	20,21
<b>JUMLAH</b>			29,064	1,701						2,724	163,445
	Lifting Panel Deck	SB1.PS		2,084			0,537	1,12	3	0,37	22,38
	Fitting Panel Deck	SB1.PS	14,532			0,067		0,97	2	0,49	29,21
	Welding Bracket dan Cantilever ke Deck Beam	SB1.PS	2,532		0,133			0,34	1	0,34	20,21
	Welding deck Plate ke Side Plate	SB1.PS	12,000		0,133			1,60	1	1,60	95,76
<b>JUMLAH</b>			29,064	2,084						2,793	167,552
<b>Sub-Block 2 (Double Bottom)</b>											
<b>Panel Inner Bottom</b>											
1	Lifting Keel Plate	44-55.KP.Sb2.HS5.DB		0,848				0,46		0,23	13,66
2	Lifting Bottom Plate A	44-55.BP.Sb2.HS5.DB		0,707			0,537	0,38	2	0,19	11,38
3	Lifting Bottom Plate B	44-55.BP.Sb2.HS5.DB		0,707				0,38		0,19	11,38
4	Lifting Bottom Plate C	44-55.BP.Sb2.HS5.DB		0,707				0,38		0,19	11,38
5	Lifting Bottom Plate D	44-55.BP.Sb2.HS5.DB		0,707				0,38		0,19	11,38
6	Fitting Bottom Plate A ke B	44-55.BP.Sb2.HS5.DB	6,000					0,40		0,20	12,06
7	Fitting Bottom Plate B ke Keel Plate	44-55.KP.Sb2.HS5.DB	6,000			0,067		0,40	2	0,20	12,06
8	Fitting Keel Plate ke Bottom plate C	44-55.KP.Sb2.HS5.DB	6,000					0,40		0,20	12,06
9	Fitting Bottom Plate C ke D	44-55.BP.Sb2.HS5.DB	6,000					0,40		0,20	12,06
10	Welding Bottom Plate A ke B	44-55.BP.Sb2.HS5.DB	12,000					1,60		0,80	47,88
11	Welding Bottom Plate B ke Keel Plate	44-55.KP.Sb2.HS5.DB	12,000		0,133			1,60	2	0,80	47,88
12	Welding Keel Plate ke Bottom plate C	44-55.KP.Sb2.HS5.DB	12,000					1,60		0,80	47,88
13	Welding Bottom Plate C ke D	44-55.BP.Sb2.HS5.DB	12,000					1,60		0,80	47,88
14	Lifting Center Girder	44-55.CG.Sb2.HS5.DB		0,377			0,537	0,20	2	0,10	6,07
15	Fitting Center Girder ke Bottom Plate	44-55.CG.Sb2.HS5.DB	6,000			0,067		0,40	1	0,40	24,12
16	Welding Center Girder ke Botom Panel	44-55.CG.Sb2.HS5.DB	12,000		0,133			1,60	1	1,60	95,76
17	Lifting Bottom frame dan Bracket open Floor	44-55.IBa.Sb2.HS5.DB		2,201			0,537	1,18	2	0,59	35,45
18	Fitting Bottom Frame dan Bracket Open Floor	44-55.IBa.Sb2.HS5.DB	2,650			0,067		0,18	1	0,18	10,65
19	Welding Bottom Frame ke Bottom Panel	44-55.IBa.Sb2.HS5.DB	23,850		0,133			3,17	2	1,59	95,16
20	Welding Bracket Open Floor Ke Bottom Panel	44.F.Sb2.HS5.DB	4,104		0,133			0,55	1	0,55	32,75



21	Lifting Bracket of Stiffener	44.BS.Sb2.HS5.DB		0,019			0,537	0,01	1	0,01	0,63	
22	Fitting Bracket of Stiffener ke Bottom Frame	44.BS.Sb2.HS5.DB	2,70			0,067		0,18	1	0,18	10,85	
23	Welding Bracket of Stiffener	44.BS.Sb2.HS5.DB	2,70		0,133			0,36	1	0,36	21,55	
24	Lifting Stiffener	44.SF.Sb2.HS5.DB		0,169			0,537	0,09	1	0,09	5,44	
25	Fitting Stiffener	44.SF.Sb2.HS5.DB	2,70			0,067		0,18	1	0,18	10,85	
26	Welding Stiffener ke Bracket of Stiffener	44.SF.Sb2.HS5.DB	1,69		0,133			0,23	1	0,23	13,50	
27	Lifting Solid Floor	44-55.SF.Sb2.HS5.DB		1,549			0,537	0,83	2	0,42	24,96	
28	Fitting Solid Floor ke Bottom Panel	44-55.SF.Sb2.HS5.DB	20,742			0,067		1,39	2	0,69	41,69	
29	Welding Solid Floor ke Bottom Panel	44-55.SF.Sb2.HS5.DB	41,484		0,133			5,52	2	2,76	165,52	
30	Welding Solid Floor ke Center Girder	44-55.SF.Sb2.HS5.DB	9,000		0,133			1,20	1	1,20	71,82	
31	Lifting Side Girder	44-55.SGa.Sb2.HS5.DB		0,754			0,537	0,40	2	0,202	12,140	
32	Fitting Side Girde	44-55.SGa.Sb2.HS5.DB	24,00			0,067		1,61	1	1,608	96,480	
33	Welding Side Girder ke Bottom Panel	44-55.SGa.Sb2.HS5.DB	24,00		0,133			3,19	1	3,192	191,520	
34	Welding Side Girder ke Solid Floor	44-55.SGa.Sb2.HS5.DB	24,00		0,133			3,19	2	1,596	95,760	
JUMLAH			273,622	8,742						22,694	1361,621	
<b>Panel Bottom</b>												
1	Lifting Pelat Inner Bottom A	44-55.IBa.Sb2.HS5.DB		0,565			0,537	0,30	2	0,15	9,11	
2	Lifting Pelat Inner Bottom B	44-55.IBa.Sb2.HS5.DB		0,565		0,30		0,15		9,11		
3	Lifting Pelat Inner Bottom C	44-55.IBa.Sb2.HS5.DB		0,565		0,30		0,15		9,11		
4	Lifting Pelat Inner Bottom D	44-55.IBb.Sb2.HS5.DB		0,468		0,25		0,13		7,55		
5	Lifting Pelat Inner Bottom E	44-55.IBb.Sb2.HS5.DB		0,468		0,25		0,13		7,55		
6	Fitting Pelat Inner Bottom A ke B	44-55.IBa.Sb2.HS5.DB	6,000			0,067		0,40	1	0,40	24,12	
7	Fitting Pelat Inner Bottom B ke C	44-55.IBa.Sb2.HS5.DB	6,000					0,40		0,40	24,12	
8	Fitting Pelat Inner Bottom C ke D	44-55.IBa.Sb2.HS5.DB	6,000					0,40		0,40	24,12	
9	Fitting Pelat Inner Bottom D ke E	44-55.IBb.Sb2.HS5.DB	6,000					0,40		0,40	24,12	
10	Welding Pelat Inner Bottom A ke B	44-55.IBa.Sb2.HS5.DB	12,000			0,133		1,60	2	0,80	47,88	
11	Welding Pelat Inner Bottom B ke C	44-55.IBa.Sb2.HS5.DB	12,000							1,60	0,80	47,88
12	Welding Pelat Inner Bottom C ke D	44-55.IBa.Sb2.HS5.DB	12,000							1,60	0,80	47,88
13	Welding Pelat Inner Bottom D ke E	44-55.IBb.Sb2.HS5.DB	12,000							1,60	0,80	47,88
14	Lifting Reserve Frame	44-55.BF.Sb2.HS5.DB		0,393			0,537	0,21	1	0,21	12,67	
15	Fitting Reserve Frame ke Inner Bottom	44-55.BF.Sb2.HS5.DB	5,300			0,133		0,36	1	0,36	21,31	
16	Welding Reserve Frame Ke Inner Bottom	44-55.BF.Sb2.HS5.DB	5,300		0,133			0,70	1	0,70	42,29	
17	Lifting Bracket of Stiffener	44.BS.Sb2.HS5.DB		0,019			0,537	0,01	1	0,01	0,63	
18	Fitting Bracket of Stiffener ke Reserve Frame	44.BS.Sb2.HS5.DB	2,70			0,067		0,18	1	0,18	10,85	
19	Welding Bracket	44.BS.Sb2.HS5.DB	2,70		0,133			0,36	1	0,36	21,55	
JUMLAH			88,000	3,045						7,328	439,702	
<b>Lifting Inner Bottom Panel</b>												
	Lifting Inner Bottom Panel	SB2.DB.HS5		3,045			0,537	1,64	3	0,55	32,70	
	Fitting Inner Bottom Panel ke Inner Inner Bottom Panel	SB2.DB.HS5	32,676			0,067		2,19	2	1,09	65,68	
	Welding Center Girder ke Inner Bottom	SB2.DB.HS5	12,000		0,133			1,60	1	1,60	95,76	
	Welding Bracket Open Floor Ke Panel Inner Bottom	SB2.DB.HS5	4,164		0,133			0,55	2	0,28	16,61	
	Welding Bracket of Stiffener ke Panel Inner Bottom	SB2.DB.HS5	1,692		0,133			0,23	1	0,23	13,50	
	Welding Solid Floor ke Panel Inner Bottom	SB2.DB.HS5	41,640		0,133			5,54	3	1,85	110,76	
JUMLAH			92,172	3,045						5,584	335,021	





Sub-Block 3 (Starboard Side)											
Panel Deck											
1	Lifting Pelat Deck A	44-55.DPA.Sb3.HS5.SB		0,641			0,537	0,34	2	0,17	10,32
2	Lifting Pelat Deck B	44-55.DPB.Sb3.HS5.SB		0,565			0,537	0,30		0,15	9,11
3	Fitting Pelat A dan pelat B	44-55.DPA.Sb3.HS5.SB	6,000			0,067		0,40	1	0,40	24,12
4	Welding Joint pelat A dan pelat B	44-55.DPB.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
	Lifting Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb3.HS5.SB		0,036			0,537	0,02	2	0,01	0,58
		45.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		46.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		47.GD.Sb3.HS5.SB		0,106		0,06		0,03		1,70	
		48.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		49.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		50.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		51.GD.Sb3.HS5.SB		0,106		0,06		0,03		1,70	
		52.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		53.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
		54.TD.Sb3.HS5.SB		0,036		0,02		0,01		0,58	
55.GD.Sb3.HS5.SB		0,106		0,06	0,03	1,70					
	Fitting Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb3.HS5.SB	3,367			0,067		0,23	1	0,23	13,54
		45.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		46.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		47.GD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		48.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		49.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		50.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		51.GD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		52.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		53.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
		54.TD.Sb3.HS5.SB	3,367				0,23	0,23		13,54	
55.GD.Sb3.HS5.SB	3,367			0,23	0,23	13,54					
	Welding Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb3.HS5.SB	3,367		0,133		0,45	1	0,45	26,87	
		45.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		46.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		47.GD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		48.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		49.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		50.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		51.GD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		52.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		53.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
		54.TD.Sb3.HS5.SB	3,367				0,45		0,45	26,87	
55.GD.Sb3.HS5.SB	3,367			0,45	0,45	26,87					
	Lifting Longitudinal Deck Beam ke Deck Plate	47.LD.Sb3.HS5.PS		0,188			0,537	0,10	2	0,05	3,04
	Fitting Longitudinal Deck Ke Deck Plate	47.LD.Sb3.HS5.PS	6,000			0,067		0,40	1	0,40	24,12
	Welding Longitudinal Deck Beam ke Deck Plate	47.LD.Sb3.HS5.PS	12,000		0,133			1,60	1	1,60	95,76
	eam	44-54.BM.Sb3.HS5.PS		0,049			0,537	0,03	1	0,03	1,57
	eam	44-54.BM.Sb3.HS5.PS	10,793			0,067		0,72	1	0,72	43,39
	Beam	44-54.BM.Sb3.HS5.PS	10,793		0,133			1,44	1	1,44	86,13
JUMLAH			116,808	2,084						12,623	757,389



Panel Side										
Lifting Side Plate A	44-55.SPA.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Lifting Side Plate B	44-55.SPb.Sb3.HS5.SB		0,408			0,537	0,22		0,11	6,57
Fitting Side Plate A dan B	44-55.SPA.Sb3.HS5.SB	6,000			0,067		0,40	1	0,40	24,12
Welding Side Plate A ke Side Plate B	44-55.SPb.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Lifting Frame Ke Side Plate	44.MF.Sb3.HS5.SB		0,026			0,537	0,01	2	0,01	0,42
	45.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	46.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	47.WF.Sb3.HS5.SB		0,077				0,04		0,02	1,24
	48.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	49.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	50.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	51.WF.Sb3.HS5.SB		0,077				0,04		0,02	1,24
	52.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	53.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	54.MF.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	55.WF.Sb3.HS5.SB		0,077				0,04		0,02	1,24
	Fitting Frame ke Side Plate	44.MF.Sb3.HS5.SB	2,259				0,067			0,15
45.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
46.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
47.WF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
48.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
49.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
50.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
51.WF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
52.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
53.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
54.MF.Sb3.HS5.SB		2,259				0,15		0,15	9,08	
Welding Frame Ke Side Plate	44.MF.Sb3.HS5.SB	2,259		0,133		0,30	1	0,30	18,03	
	45.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	46.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	47.WF.Sb3.HS5.SB	4,600				0,61		0,61	36,71	
	48.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	49.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	50.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	51.WF.Sb3.HS5.SB	4,600				0,61		0,61	36,71	
	52.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	53.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	54.MF.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
55.WF.Sb3.HS5.SB	4,600			0,61	0,61	36,71				
Lifting Bracket of Main Frame ke Main Frame	44-54.BM.Sb3.HS5.SB		0,079			0,537	0,04	2	0,02	1,28
Lifting Cantilever ke Web Frame	47-55.BW.Sb3.HS5.SB		0,050			0,537	0,03	1	0,03	1,62
Fitting Bracket of Main Frame ke Main Frame	44-54.BM.Sb3.HS5.SB	12,460			0,067		0,83	1	0,83	50,09
Fitting Cantilever ke Web Frame	47-55.BW.Sb3.HS5.SB	7,245			0,067		0,49	1	0,49	29,12
Frame ke Main Frame	44-54.BM.Sb3.HS5.SB	12,460		0,133			1,66	1	1,66	99,43
	47-55.BW.Sb3.HS5.SB	7,245		0,133			0,96	1	0,96	57,81
Plate	32-43.SR.Sb3.HS4.SB		0,132			0,537	0,07	2	0,04	2,12
	32-43.SR.Sb3.HS4.SB	6,000			0,067		0,40	1	0,40	24,12
Plate	32-43.SR.Sb3.HS4.SB	12,000		0,133			1,60	1	1,60	95,76
<b>JUMLAH</b>		136,656	1,701						14,764	885,813



Panel Bulkhead										
Lifting Bulkhead Plate A	44-55.BPa.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Lifting Bulkhead Plate B	44-55.BPb.Sb3.HS5.SB		0,260			0,537	0,14	2	0,07	4,19
Lifting Bulkhead Plate C	44-55.BPa.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Fitting Bulkhead Plate A ke B	44-55.BPa.Sb3.HS5.SB	6,000			0,067		0,40	1	0,40	24,12
Fitting Bulkhead Plate B ke C	44-55.BPb.Sb3.HS5.SB	6,000			0,067		0,40	1	0,40	24,12
Welding Bulkhead Plate A ke B	44-55.BPa.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Welding Bulkhead Plate B ke C	44-55.BPa.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Lifting Stiffener ke Bulkhead Panel	44.ST.Sb3.HS5.SB		0,026			0,537	0,01	2	0,01	0,42
	45.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	46.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	47.WS.Sb3.HS5.SB		0,077				0,04		0,02	1,24
	48.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	49.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	50.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	51.WS.Sb3.HS5.SB		0,077				0,04		0,02	1,24
	52.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	53.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
	54.ST.Sb3.HS5.SB		0,026				0,01		0,01	0,42
55.WS.Sb3.HS5.SB		0,077			0,04	0,02	1,24			
Fitting Stiffener ke Bulkhead Panel	44.ST.Sb3.HS5.SB	2,259			0,067		0,15	1	0,15	9,08
	45.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	46.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	47.WS.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	48.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	49.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	50.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	51.WS.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	52.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	53.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
	54.ST.Sb3.HS5.SB	2,259					0,15		0,15	9,08
55.WS.Sb3.HS5.SB	2,259				0,15	0,15	9,08			
Welding Stiffener ke Bulkhead Panel	44.ST.Sb3.HS5.SB	2,259		0,133		0,30	1	0,30	18,03	
	45.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	46.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	47.WS.Sb3.HS5.SB	4,600				0,61		0,61	36,71	
	48.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	49.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	50.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	51.WS.Sb3.HS5.SB	4,600				0,61		0,61	36,71	
	52.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	53.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
	54.ST.Sb3.HS5.SB	2,259				0,30		0,30	18,03	
55.WS.Sb3.HS5.SB	4,600			0,61	0,61	36,71				
Lifting Bracket of Stiffener ke Stiffener	44-54.BS.Sb3.HS5.SB		0,049			0,537	0,03	2	0,01	0,78
ener	47-55.BW.Sb3.HS5.SB		0,050			0,537	0,03	1	0,03	1,62
er ke Stiffener	44-54.BS.Sb3.HS5.SB	8,788			0,067		0,59	1	0,59	35,33
ener	47-55.BW.Sb3.HS5.SB	7,245			0,067		0,49	1	0,49	29,12
er ke Stiffener	44-54.BS.Sb3.HS5.SB	8,788		0,133			1,17	1	1,17	70,13
ffener	47-55.BW.Sb3.HS5.SB	7,245		0,133			0,96	1	0,96	57,81
	44-5.SR.Sb3.HS5.SB		0,132			0,537	0,07	2	0,04	2,12
ead Plate	44-5.SR.Sb3.HS5.SB	6,000			0,067		0,40	1	0,40	24,12
head Plate	44-5.SR.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
JUMLAH		147,311	2,088						16,131	967,859



Panel Bottom										
Lifting Inner Bottom Plate I	44-55.IBa.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Lifting Inner Bottom Plate J	44-55.IBb.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Lifting Inner Bottom Plate K	44-55.IBc.Sb3.HS5.SB		0,167			0,537	0,09	2	0,04	2,68
Fitting Inner Bottom Plate I, J, dan K	44-55.IBa.Sb3.HS5.SB	12,000		0,067			0,80	2	0,40	24,12
Welding Inner Bottom Plate I ke J	44-55.IBa.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Welding Inner Bottom Plate J ke K	44-55.IBb.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Lifting Floor c ke Inner Bottom Panel	44-55.SF.Sb3.HS5.SB		1,520			0,537	0,82	3	0,27	16,33
Fitting Floor c ke Inner Bottom Panel	44-55.SF.Sb3.HS5.SB	41,280			0,067		2,77	2	1,38	82,97
Welding Floor c ke Inner Bottom Panel	44-55.SF.Sb3.HS5.SB	82,560		0,133			10,98	2	5,49	329,41
Lifting Side Girder ke Inner Bottom	44-55.SG.Sb3.HS5.SB		0,377			0,537	0,20	2	0,10	6,07
Fitting Side Girder ke Inner Bottom	44-55.SG.Sb3.HS5.SB	6,000			0,067		0,40	2	0,20	12,06
Welding Side Girder ke Inner Bottom	44-55.SG.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Welding Side Girder ke Floor	44-55.SG.Sb3.HS5.SB	32,160		0,133			4,28	1	4,28	256,64
Lifting Bottom Plate B ke Floor c	44-55.BPa.Sb3.HS5.SB		0,301			0,537	0,16	2	0,08	4,86
Fitting Bottom Plate B ke Floor c	44-55.BPa.Sb3.HS5.SB	36,000			0,067		2,41	2	1,21	72,36
Welding Bottom Plate B ke Floor c	44-55.BPa.Sb3.HS5.SB	36,000		0,133			4,79	2	2,39	143,64
Lifting Bottom Plate A ke Floor c	44-55.BPb.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Fitting Bottom Plate A ke Floor c	44-55.BPb.Sb3.HS5.SB	19,200			0,067		1,29	2	0,64	38,59
Welding Bottom Plate A ke Floor c	44-55.BPb.Sb3.HS5.SB	19,200		0,133			2,55	2	1,28	76,61
Lifting Bilge Plate ke Floor c	44-55.BS.Sb3.HS5.SB		0,565			0,537	0,30	2	0,15	9,11
Fitting Bilge Plate ke Floor c	44-55.BS.Sb3.HS5.SB	26,088			0,067		1,75	2	0,87	52,44
Welding Bilge Plate ke Floor c	44-55.BS.Sb3.HS5.SB	26,088		0,133			3,47	2	1,73	104,09
Welding Bottom Plate G Ke Bottom Plate H	44-55.BPa.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Welding Side Girder ke Bottom Plate	44-55.SG.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
Welding Bottom Plate H ke Bilge Plate	44-55.BPb.Sb3.HS5.SB	12,000		0,133			1,60	1	1,60	95,76
<b>PERPIPAAN</b>										
PERPIPAAN AIR TAWAR										
Lifting Pipa Diameter 3" + Komponen	44-55.AT.3.HS5.PSSB		0,07			0,123	0,01	2	0,00	0,25
Fitting Pipa Diameter 3" + Komponen	44-55.AT.3.HS5.PSSB	1,12			0,846		0,95	1	0,95	56,81
Welding Pipa Diameter 3" + Komponen	44-55.AT.3.HS5.PSSB	1,12		0,212			0,24	1	0,24	14,23
JUMLAH		410,814	4,694						31,752	1905,142
Lifting Panel Bulkhead	SB3.SB.HS5		2,088			0,537	1,12	4	0,28	16,82
Fitting Panel Bulkhead ke Panel Bottom	SB3.SB.HS5	17,328			0,067		1,16	4	0,29	17,41
Welding Floor ke Panel Bulkhead	SB3.SB.HS5	17,592		0,133			2,34	2	1,17	70,19
Welding Inner Bottom ke Panel Bulkhead	SB3.SB.HS5	12,000		0,133			1,60	1	1,60	95,76
Welding Bracket dan Cantilever ke Inner Bottom	SB3.SB.HS5	2,532		0,133			0,34	1	0,34	20,21
JUMLAH		49,452	2,088						3,673	220,390
Lifting Panel Side	SB3.SB.HS5		1,701			0,537	0,91	4	0,23	13,70
Fitting Panel Side ke Panel Bottom	SB3.SB.HS5	14,532			0,067		0,97	3	0,32	19,47
Welding Side Plate ke Bilge Plate	SB3.SB.HS5	12,000		0,133			1,60	1	1,60	95,76
Welding Bracket dan Cantilever ke Inner Bottom	SB3.SB.HS5	2,532		0,133			0,34	1	0,34	20,21
JUMLAH		29,064	1,701						2,486	149,141
Lifting Panel Deck	SB3.SB.HS5		2,084			0,537	1,12	4	0,28	16,78
Cantilever ke Deck Beam	SB3.SB.HS5	14,532			0,067		0,97	3	0,32	19,47
Welding Side Plate ke Deck Plate	SB3.SB.HS5	12,000		0,133			1,60	1	1,60	95,76
JUMLAH		29,064	2,084						2,537	152,221



Sub-Block 4 (Deck)													
1	Lifting Pelat Deck A	44-55.DPa.Sb4.HS5.DS		0,565			0,537	0,30	2	0,15	9		
2	Lifting Pelat Deck B	44-55.DPb.Sb4.HS5.DS		0,565			0,537	0,30	2	0,15	9		
3	Lifting Pelat Deck C	44-55.DPc.Sb4.HS5.DS		0,565			0,537	0,30	2	0,15	9		
4	Lifting Pelat Deck D	44-55.DPd.Sb4.HS5.DS		0,565			0,537	0,30	2	0,15	9		
5	Lifting Pelat Deck E	44-55.DPe.Sb4.HS5.DS		0,565			0,537	0,30	2	0,15	9		
6	Fitting Pelat A ke B	44-55.DP.Sb4.HS5.DS	6,000			0,067		0,40	1	0,40	24		
	Fitting Pelat B ke C	44-55.DP.Sb4.HS5.DS	6,000			0,067		0,40	1	0,40	24		
	Fitting Pelat C ke D	44-55.DP.Sb4.HS5.DS	6,000			0,067		0,40	1	0,40	24		
	Fitting Pelat D ke E	44-55.DP.Sb4.HS5.DS	6,000			0,067		0,40	1	0,40	24		
7	Welding Joint pelat C dan pelat D	44-55.DPa.Sb4.HS5.DS	12,000			0,133		1,60	2	0,80	48		
8	Welding Joint pelat D dan pelat E	44-55.DPb.Sb4.HS5.DS	12,000			0,133		1,60	2	0,80	48		
9	Welding Joint pelat E dan pelat F	44-55.DPc.Sb4.HS5.DS	12,000			0,133		1,60	2	0,80	48		
10	Welding Joint pelat F dan pelat G	44-55.DPd.Sb4.HS5.DS	12,000			0,133		1,60	2	0,80	48		
11	Lifting Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb4.HS5.DS		0,075			0,537	0,04	2	0,02	1		
12		45.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
13		46.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
14		47.GD.Sb4.HS5.DS		0,220		0,12		0,06		4			
15		48.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
16		49.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
17		50.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
18		51.GD.Sb4.HS5.DS		0,220		0,12		0,06		4			
19		52.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
20		53.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
21		54.TD.Sb4.HS5.DS		0,075		0,04		0,02		1			
22		55.GD.Sb4.HS5.DS		0,220		0,12		0,06		4			
23		Fitting Girder and Trans. Deck Beam ke Deck Plate	44.TD.Sb4.HS5.DS	7,000				0,067		0,47	2	0,23	14
24			45.TD.Sb4.HS5.DS	7,000		0,47				0,23		14	
25			46.TD.Sb4.HS5.DS	7,000		0,47				0,23		14	
26	47.GD.Sb4.HS5.DS		7,000		0,47	0,23	14						
27	48.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
28	49.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
29	50.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
30	51.GD.Sb4.HS5.DS		7,000		0,47	0,23	14						
31	52.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
32	53.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
33	54.TD.Sb4.HS5.DS		7,000		0,47	0,23	14						
34	55.GD.Sb4.HS5.DS		7,000		0,47	0,23	14						
35	Welding Girder and Trans. Deck Beam ke Deck Plate		44.TD.Sb4.HS5.DS	7,000			0,133		0,93	2		0,47	28
36		45.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
37		46.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
38		47.GD.Sb4.HS5.DS	7,000		0,93	0,47		28					
39		48.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
40		49.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
41		50.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
		51.GD.Sb4.HS5.DS	7,000		0,93	0,47		28					
		52.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
		53.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
		54.TD.Sb4.HS5.DS	7,000		0,93	0,47		28					
	55.GD.Sb4.HS5.DS	7,000		0,93	0,47	28							



47	Lifting Longitudinal Deck Beam ke Deck Plate	44-55.LD.Sb4.HS5.DS		0,377		0,537	0,20	2	0,10	6
48	Fitting Longitudinal Deck Beam Ke Deck Plate	44-55.LD.Sb4.HS5.DS	24,000		0,067		1,61	2	0,80	48
49	Welding Longitudinal Deck Beam ke Deck Plate	44-55.LD.Sb4.HS5.DS	48,000		0,133		6,38	1	6,38	383
50	Lifting Bracket Trans. Deck Beam	44-55.BD.SB4.HS5.DS		0,037		0,537	0,02	1	0,02	1
51	Fitting Bracket Trans. Deck Beam	44-55.BD.SB4.HS5.DS	26,363		0,067		1,77	1	1,77	106
52	Welding Bracket Trans. Deck Beam	44-55.BD.SB4.HS5.DS	26,363		0,133		3,51	2	1,75	105
53	Lifting Cantilever ke Panel Deck	47-55.BW.SB4.HS5.DS		0,050		0,537	0,03	1	0,03	2
54	Fitting Cantilever	47-55.BW.SB4.HS5.DS	3,598		0,067		0,24	1	0,24	14
55	Welding Cantilever ke Panel deck	47-55.BW.SB4.HS5.DS	3,598		0,133		0,48	1	0,48	29
56	Lifting Pilar to Deck Panel	44-55.PL.SB4.HS2.DS		0,204		0,537	0,11	3	0,04	2
57	Fitting Pilar to Deck Panel	44-55.PL.SB4.HS2.DS	3,780		0,067		0,25	3	0,08	5
58	Welding Pilar to Deck Panel	44-55.PL.SB4.HS2.DS	3,780		0,133		0,50	2	0,25	15
59	Lifting Bracket of Pillar ke Deck Panel	47.BP.SB4.HS5.DS		0,125		0,537	0,07	1	0,07	4
60	Fitting Bracket of Pillar	47.BP.SB4.HS5.DS	12,240		0,067		0,82	1	0,82	49
61	Welding Bracket of Pillar ke Deck Panel	47.BP.SB4.HS5.DS	24,480		0,133		3,26	1	3,26	195
Jumlah			416,202	4,950					26,264	1575,814

**PERAKITAN HULL STRUCTURE 05**

i	NAMA KEGIATAN	KODE KOMPONEN	PEKERJAAN		FORMULA JO			JO	PERKIRAAN TENAGA KERJA	DURASI	
			PANJANG	BERAT	WELDING	FITTING	LIFTING			JAM	MENIT
			(m)	(ton)	JO/unit	JO/unit	JO/unit				
(2)	Lifting Sub-Block 1 (Portside)	HS5.PS		10,498			0,537	5,64	4	1,41	84,57
	Fitting Sub-Block 1 ke Sub Block 2 (Double Bottom)	HS5.PS	25,608			0,067		1,72	2	0,86	51,47
	Welding Bottom Plate Sb1 ke Sb2	HS5.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Ininner Bottom Sb2	HS5.PS	12,000		0,133			1,60	1	1,60	95,76
	Welding Bulkhead Plate ke Floor Sb2	HS5.PS	27,216		0,133			3,62	2	1,81	108,59
Jumlah			76,824	10,498						7,269	436,149
	Lifting Sub-Block 3 (Starboard Side)	HS5.SB		10,498			0,537	5,64	4	2,82	169,13
	Fitting Sub-Block 3 ke Sub Block 2 (Double Bottom)	HS5.SB	25,608			0,067		1,72	2	0,86	51,47
	Welding Bottom Plate Sb3 ke Sb2	HS5.SB	12,000		0,133			1,60	1	0,80	47,88
	Welding Bulkhead Plate ke Ininner Bottom Sb2	HS5.SB	12,000		0,133			1,60	1	0,80	47,88
	Welding Bulkhead Plate ke Floor Sb2	HS5.SB	27,216		0,133			3,62	2	1,81	108,59
Jumlah			76,824	10,498						7,083	424,954
	Lifting Sub-Block 4 (Deck)	HS5.DK		4,950			0,537	2,66	4	1,33	79,75
	Fitting Sub Block 4 ke Sb1, Sb2, dan Sb3	HS5.DK	29,970			0,067		2,01	3	1,00	60,24
	Welding deck Plate Sb4 ke Deck Plate Sb1&3	HS5.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Deck Plate ke Bulkhead Plate Sb1&3	HS5.DK	24,000		0,133			3,19	2	1,60	95,76
	Welding Bracket of Sb4 ke SB 1&3	HS5.DK	4,080		0,133			0,54	1	0,27	16,28
	Welding Pilar ke Sb2	HS5.DK	3,780		0,133			0,50	2	0,25	15,08
	Welding Bracket of Pillar ke Sb2	HS5.DK	8,160		0,133			1,09	1	1,09	65,12
Jumlah			93,990	4,950						7,133	427,990

