



MT – BALLAST TANK UPGRADING PROJECT

CHEMCO SYSTEMS VS STANDARD EPOXIES







Attached project plans and budget calculations are prepared for estimations with estimated real figures. Prices can be change according to different yards offers but more or less these values can be calculate for estimations. During the calculations below, items can be follow with our experience, values and approved calculations.

SA1 & SA2 Blasting Works;

- Each blaster can manage ~ 60m²/shift with 1 nozzle SA1,
- Each blaster can be manage **50 m²/shift** with 1 nozzle SA2,
- Each tank maximized to 4 nozzle/shift and daily 600 m² blasting calculated,
- Total blasting capacities calculated as 16 nozzle/shift for tanks Approx. 1200 KW electric usage for compressors and vacuum collector.
- High-pressure water washing require before blasting for salt, slime or other dirt's removal.
- All washing waters have to be collected before blasting, tank have to be dry condition.
- Grid consumption will be around 500 tons. Used grid should be clean (vacuum cleaning) before coating application (~40 m² of area can be blast with 1 tons of grid for SA1&SA2).

Equipment Lists: Compressors 160KW x 4pcs, vacuum cleaners 75KW x 3 pcs., dehumidifier x 7 pcs., grid tanks & ~500 tons of grid for usage and after completion disposal, water jets (~350 bars), paint pumps.

WATERJETTING (WJ3) Works;

- Each blaster can manage ~ 100 150 m²/shift with 1 nozzle ~ WJ3,
- No grid consumption, just water disposal for water jetting.
- Total 4 water jetting machine with 8 nozzles (2 nozzles/machine) with a ~1000 bars capacities.
 (Diesel machines & electrical machines to be use).

Equipment Lists: Water jets (~1000 bars) x 4pcs with 2 nozzles, paint pumps.





SUMMARY – 20400 m² Rusty Areas in 12 Ballast Tanks

No	Description	Chemcoint with Water jetting (Solvent Free)	Traditional Epoxies with Blasting (Solvent Based)	Difference
1	Safety – Worker	Solvent free	Solvent base, more risk for explosion, lungs etc.	Priceless
2	Surface Preparation Costs (EFES MARINE OFFER IS ~ 25% Cheaper Than Yard)	 \$ 410.970 (With Efes Marine \$295.595) (No need any docking for Chemco, Standard docking works can be carry out during Chemco Application.) 	\$ 821.713 (With 12 days docking for grid transfers humidity, dew point etc.)	\$ 410.743
3	Product Supply Costs	~\$ 180.000	\$ 120.000 Standard epoxies are cheaper	-\$ 60.000
4	Total Cost Difference (Including docking periods – for Chemcoint no need but budget added)	~ \$ 590.000 (With EFES Marine \$480.000) Even standard epoxy product is free of charge ; surface preparation cost is higher than Chemco full system.	\$ 940.00 0	\$ 350.000 (With Efes Marine ~\$460.000)
5	Repair Period (For Coating Works)	16.92 days with just 8 nozzles (water jetters) without any delays for standard docking period. Normally Chemco is 1coat but planned calculated 2coat+1stripe.	21.75 Days (13 days docking) with 16 nozzles blasters (During the docking yard may not have enough nozzle).	5 days more yard period. If rain or humidity is high, can be delay more.
6	Certification (IACS)	Class Approval – Fresh Water Tank Approval – Cargo Oil Tank Approval	Class Approval	\checkmark
7	Rain or humidity effects	Application can be carry out without any delay.	Period can be delay because of humidity, flush rust, rain etc.	!
8	Overcoat time for repairs	Unlimited	~ 2 – 3 months for general epoxy systems. After that surface need to be, prepare again for coating repairs.	ļ
9	Ballasting of time	Product can be cure underwater . Tank can be start for operations after inspection.	1 day – 7 days depends on product and temperature.	!
10	Application Difficulty	Due to limited application time after mixture, paint have to be apply immediately. (30 min. to 1 hour). Controlled application needed.	Solvent content can let the paint dry later. (2 – 4 hour) Easy to apply.	!
11	Loss Factor (To be added for order)	30%	30%	-
12	Labor – Equipment Usage	~Very limited work force to be use. Waterjet 1000 bars x 4 pcs. Waterjet 300 barsx2, – paint pumps.	More work force needed. Waterjet 300 barsx2, Compressors 160KWx4pcs, Dehumidifierx7pcs, Vacuum cleanerx3pcs, paint p. crane etc.	ļ





Additional Notes:

- All above prices are given as per est. market prices in Mediterranean and Turkey region. Prices can be different in different locations. Please contact with your yard representatives and paint suppliers for more information. Detail calculations can be share with mail.
- 2. Solvent based products are effecting hot-works inside the tanks due to it is flammable solvent content. Explosion risk effect of solvent-based coatings. If vessel has both steel works and coating works at same location it is hard to manage and can delay total scope. With Chemco, solvent-free systems steel works (hot work) can be carry out at the same time in nearby locations.

STANDARD EPOXIES TANK COATING APPLICATION PLAN – NEARBY LOCATION WORKING													
No:1 PS WBT	No:1 Cargo Tank	No:1 STBD WBT											
No coating work can be permit.	Coating work can be permit.	No coating work can be permit.											
No:2 PS WBT	No:2 Cargo Tank	No:2 STBD WBT											
Steel works	No coating work can be permit.	Steel works											
No:3 PS WBT	No:3 Cargo Tank	No:3 STBD WBT											
No coating work can be permit.	Coating work can be permit.	No coating work can be permit.											
No:4 PS WBT	No:4 Cargo Tank	No:4 STBD WBT											
Coating work can be permit.	Coating work can be permit.	Coating work can be permit.											
No:5 PS WBT No:5 Cargo Tank No:5 STBD WBT Conting work can be normit Conting work can be normit Conting work can be normit													
Coating work can be permit.Coating work can be permit.Coating work can be permit.													
CHEMCO SYSTEM TANK	COATING APPLICATION PLAN - NEARE	BY LOCATION WORKING											
No:1 PS WBT	No:1 Cargo Tank	No:1 STBD WBT											
Coating work can be permit.	Coating work can be permit.	Coating work can be permit.											
No:2 PS WBT	No:2 Cargo Tank	No:2 STBD WBT											
Steel works	Coating work can be permit.	Steel works											
No:3 PS WBT	No:3 Cargo Tank	No:3 STBD WBT											
Coating work can be permit.	Coating work can be permit.	Coating work can be permit.											
No:4 PS WBT	No:4 Cargo Tank	No:4 STBD WBT											
Coating work can be permit.	Coating work can be permit.	Coating work can be permit.											
No:5 PS WBT No:5 Cargo Tank No:5 STBD WBT													
Coating work can be permit.	Coating work can be permit.	Coating work can be permit.											

3. Blasting calculated as nonstop action time but grid transfers with crane will be create huge amount of crane usage during the repair period and may affect other repairs (engine room transfers, deck transfers etc.) With waterjetting (Chemco solvent-free systems) water transfers can be manage with hose so there will be no additional crane usage. Other repairs will be free to use crane.





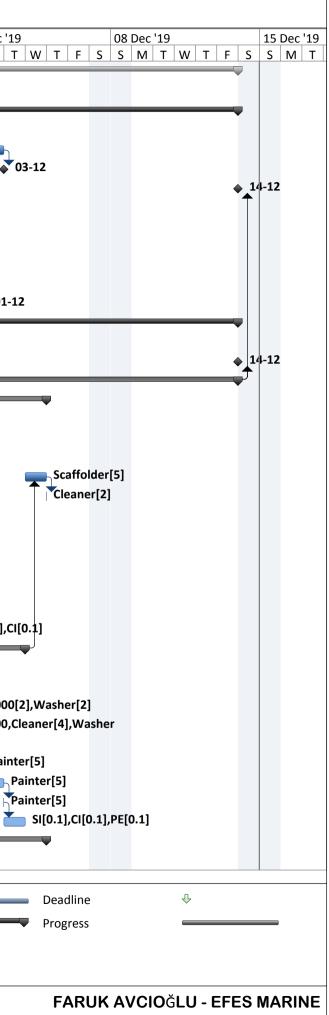
- 4. Solvent-based systems can be paint during the docking period easily. In high humidity, dehumidifiers have to be use but also it may not be enough in double bottom locations due to limited ventilation. During the rainy days or floating condition and of course because of humidity and dew point tank can delay for painting. Chemco systems can be apply even on wet surface (100% humidity is acceptable).
- 5. Speed of the waterjetting directly related with nozzle and pump capacities. For manual application, we are using max. pump capacities with www.mvt.ch orbital or turbo nozzles for to reach powerful surface removal forces with a high standard quality. Nozzle and pump selection is so important for waterjetting quality.
- 6. For more questions solution@marineindustry.net



Note: Attachements are given for calculation cross checks. All documents are shared for informative purposes. Differences can be seen due to different conditions.

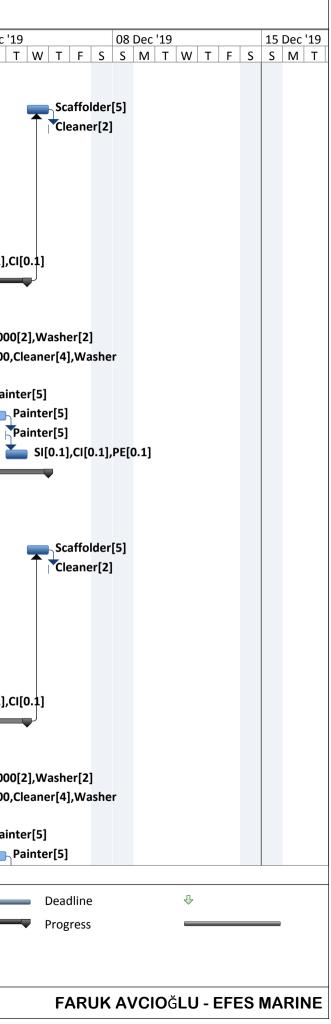
D	Task Name				Duration	Start	Finish	17 N	lov '19		24 Nov '19		01 Dec '1
								S S	MTV	V T F	S S M T	W T F S	SM
0			JPGRADING PROJECT FOR	CAP SURVEY -	25.92 days	18-11-2019	14-12-2019	Ψ		_			
1	CHEMCO APPLICATION				25.02.4	40.44.2040	4.4.4.2.204.0		1				
1	Summary				-		14-12-2019	L Y	18-11				
2	Arrival of the vessel				0 days		18-11-2019	ſ♥	- 10- 11				
3	Docking of the vess				8 days		03-12-2019					_	
4	Undocking of the ve				0 days		03-12-2019						•
5	Departure of the ve				0 days		14-12-2019			_			
6 7	Steel Works (Total ~24				13.5 days		01-12-2019						
	Starting of the steel			Casting	5.5 days		23-11-2019			_			
8	Inspector & Supe	rintendent	with class surveyor & UTM &	Coating	3 days		21-11-2019			-			
9		ions as per markin	g		5 days		23-11-2019			-	-		
10	Completion of steel				0 days		01-12-2019						01-1
11			nco System (2 Coat + 1 Stripe		16.92 days		14-12-2019				-		
12	Starting of coating v				0 days		27-11-2019				•	27-11	
13	Completion of coati				0 days	14-12-2019	14-12-2019						
14			Coating Works) - 12 Tanks		-		14-12-2019		_				
15		•	000 kg. Steel Renewal)		-		04-12-2019						
16		ank for safety prot			12 hrs		19-11-2019		- Safe	-			
17	Installations of st m ³ /tank)	aging in way of ste	el renewal areas or coating lo	cations (350	48 hrs	19-11-2019	21-11-2019			Scaffold	er[5]		
18	Removal of stagir	Ig			18 hrs	03-12-2019	04-12-2019						
19	Delivery of tank t	o ship crew after d	amage repairs, cleaning of the	e location etc.	6 hrs	04-12-2019	04-12-2019						
20	Steel Works - 200	0 kg			6.5 days	20-11-2019	27-11-2019			-		l l	
21	Transportation	of welding equipr	nents, lightening etc. on the lo	ocation	12 hrs	20-11-2019	21-11-2019			Worker			
22	Cropping of co	rroded parts as pe	r marking		48 hrs	21-11-2019	23-11-2019				Cropper[3]		
23	Fitting of new	oarts as per class r	ules		48 hrs	22-11-2019	24-11-2019				Fitter[4]		
24	Welding of the splatters etc.	fitted parts as per	class rules, grinding of burned	d areas, weld	96 hrs	22-11-2019	26-11-2019					Welder[4]	
25	Delivery of the	tank to Superinter	ndent & Class Surveyor		12 hrs	26-11-2019	27-11-2019					\$I[0.1],PE[0.1],CS[0.1],C
26	Coating Works	· ·	· · · ·		6.33 days	27-11-2019	03-12-2019				L.		
27		eaning of the tank	s (5m³/tank) - included stagin	g controls for	24 hrs	27-11-2019	28-11-2019					Cleaner[4	1]
28		f the tanks 750 bai	s - 1000 bars for min. WJ4 sur	face quality	72 hrs	28-11-2019	01-12-2019						WJ 1000
29			e rusty areas for painting, clea		60 hrs		30-11-2019						WJ 300,0
30	-	first coat of BS 500	P - Chemco Epoxy		24 hrs	30-11-2019	01-12-2019						Paint
31			on with RS 500P - Chemco Epo	עצר	16 hrs		02-12-2019						
32	-	A 500M - Chemco	•	лу	16 hrs		03-12-2019						
33			spector & Superintendent & C	lass Surveyor	12 hrs		03-12-2019						
34		-	+ 2000 kg. Steel Renewal)	lass Sulveyor	16.08 days		04-12-2019			_			
35	-	ank for safety prot			12 hrs		19-11-2019		Safe	ty			
		Task		o ot Currente and							Appual Current		
		Task	-	ect Summary			active Milestone		·		lanual Summar		
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)	Task Name	Duration	Start	Finish	17 Nov '		ov '19 01
36	Installations of staging in way of steel renewal areas or coating locations (350	48 hrs	19-11-2019	21-11-2019	S S M	T W T F S S I	M T W T F S S
37	m ³ /tank)	24 bro	02 12 2010	04 12 2010			
37 38	Removal of staging	24 hrs 6 hrs		04-12-2019 04-12-2019			
30 39	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.			27-11-2019			
39 40	Steel Works - 2000 kg	6.5 days 12 hrs		21-11-2019		Worker	
40 41	Transportation of welding equipments, lightening etc. on the location Cropping of corroded parts as per marking	48 hrs		23-11-2019		Cropper	(3)
42	Fitting of new parts as per class rules	48 hrs		24-11-2019		Fitte	
43	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs		26-11-2019			Welder[4]
44	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	26-11-2019	27-11-2019			\$I[0.1],PE[0.1],C
45	Coating Works	6.33 days	27-11-2019	03-12-2019			
46	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019			Cleaner[4]
17	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	28-11-2019	01-12-2019			_ v
48	Washing of the slime in way of the rusty areas for painting, cleaning of stringers etc.	60 hrs	28-11-2019	30-11-2019			V
9	Application of first coat of RS 500P - Chemco Epoxy	24 hrs	30-11-2019	01-12-2019			
0	Stripe coat and close up application with RS 500P - Chemco Epoxy	16 hrs	01-12-2019	02-12-2019			
51	Second coat - RA 500M - Chemco Epoxy	16 hrs	02-12-2019	03-12-2019			
52	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	03-12-2019	03-12-2019			
53	No:2 WBT PS (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	16.08 days	18-11-2019	04-12-2019	U 1		
54	Entrance to the tank for safety protections	12 hrs	18-11-2019	19-11-2019		Safety	
55	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	19-11-2019	21-11-2019		Scaffolder[5]	
56	Removal of staging	24 hrs	03-12-2019	04-12-2019			
57	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	04-12-2019	04-12-2019			
58	Steel Works - 2000 kg	6.5 days	20-11-2019	27-11-2019			
59	Transportation of welding equipments, lightening etc. on the location	12 hrs		21-11-2019		Worker	
50	Cropping of corroded parts as per marking	48 hrs		23-11-2019		Cropper	
61	Fitting of new parts as per class rules	48 hrs		24-11-2019		Fitte	
62	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs		26-11-2019			Welder[4]
63	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	26-11-2019	27-11-2019			\$I[0.1],PE[0.1],CS
64	Coating Works	6.33 days	27-11-2019	03-12-2019			V
65	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019			Cleaner[4]
66	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	28-11-2019	01-12-2019			V
67	Washing of the slime in way of the rusty areas for painting, cleaning of stringers etc.	60 hrs	28-11-2019	30-11-2019			
68	Application of first coat of RS 500P - Chemco Epoxy	24 hrs	30-11-2019	01-12-2019			
69	Stripe coat and close up application with RS 500P - Chemco Epoxy	16 hrs	01-12-2019	02-12-2019			

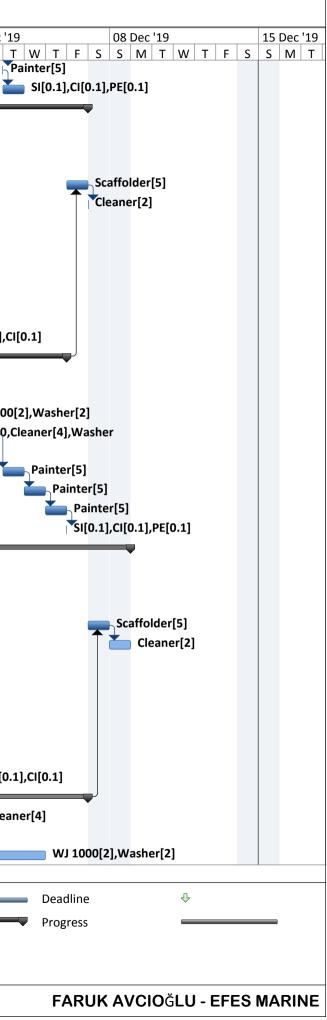
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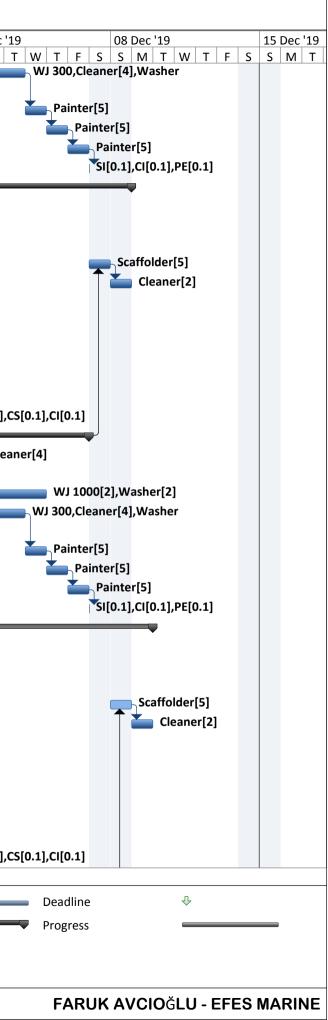
MT - TANKER CAP SURVEY WITH CHEMCO SYSTEMS

ID	Task Name	Duration	Start	Finish	17 Nov '19 24 Nov '19 01 Dec '2
70	Second coat - RA 500M - Chemco Epoxy	16 hrs	02-12-2019	03-12-2019	S S M T W T F S S M T W T F S S M
71	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs		03-12-2019	
72	No:2 WBT STBD (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	18.42 days		07-12-2019	
73	Entrance to the tank for safety protections	12 hrs	18-11-2019	19-11-2019	Safety
74	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	19-11-2019	21-11-2019	Scaffolder[5]
75	Removal of staging	24 hrs	06-12-2019	07-12-2019	
76	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	07-12-2019	07-12-2019	
77	Steel Works - 2000 kg	6.5 days	20-11-2019	27-11-2019	
78	Transportation of welding equipments, lightening etc. on the location	12 hrs	20-11-2019	21-11-2019	Worker
79	Cropping of corroded parts as per marking	48 hrs	21-11-2019	23-11-2019	Cropper[3]
80	Fitting of new parts as per class rules	48 hrs	22-11-2019	24-11-2019	Fitter[4]
81	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	22-11-2019	26-11-2019	Welder[4]
82	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	26-11-2019	27-11-2019	\$I[0.1],PE[0.1],CS[0.1],
83	Coating Works	8.67 days	27-11-2019	06-12-2019	
84	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019	Cleaner[4]
85	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	28-11-2019	01-12-2019	WJ 1000
86	Washing of the slime in way of the rusty areas for painting, cleaning of stringers etc.	60 hrs	28-11-2019	30-11-2019	WJ 300,
87	Application of first coat of RS 500P - Chemco Epoxy	24 hrs	03-12-2019	04-12-2019	
88	Stripe coat and close up application with RS 500P - Chemco Epoxy	16 hrs	04-12-2019	04-12-2019	
89	Second coat - RA 500M - Chemco Epoxy	16 hrs	04-12-2019	05-12-2019	
90	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	05-12-2019	06-12-2019	
91	No:3 WBT PS (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	19.08 days		08-12-2019	
92	Entrance to the tank for safety protections	12 hrs		19-11-2019	Safety
93	Installations of staging in way of steel renewal areas or coating locations (350 m³/tank)	48 hrs		21-11-2019	Scaffolder[5]
94	Removal of staging	24 hrs		08-12-2019	
95	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs		08-12-2019	
96	Steel Works - 2000 kg	6.5 days		27-11-2019	
97	Transportation of welding equipments, lightening etc. on the location	12 hrs		21-11-2019	Worker
98	Cropping of corroded parts as per marking	48 hrs		23-11-2019	Cropper[3]
99	Fitting of new parts as per class rules	48 hrs		24-11-2019	Fitter[4]
100	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs		27-11-2019	Welder[4]
101	Delivery of the tank to Superintendent & Class Surveyor	12 hrs		27-11-2019	SI[0.1],PE[0.1],CS[0
102	Coating Works	6.33 days		07-12-2019	
103	coating works	24 hrs	30-11-2019	01-12-2019	
104	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	01-12-2019	04-12-2019	
	Task Project Summary			active Milestone	
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ID T	ask Name				Duration	Start	Finish	17 No	/ '19	24 Nov '19	01 Dec '
											W T F S S M
105	Washing of the stringers etc.	,	e rusty areas for painting	, cleaning of	60 hrs	01-12-2019	04-12-2019	_			
106	• •	f first coat of RS 500			24 hrs	04-12-2019	05-12-2019				
107	Stripe coat a	nd close up application	on with RS 500P - Chemc	о Ероху	16 hrs	05-12-2019	06-12-2019				
108	Second coat	- RA 500M - Chemco	Ероху		16 hrs	06-12-2019	06-12-2019				
109	Delivery of th	e tank to Coating ins	spector & Superintenden	t & Class Surveyor	12 hrs	06-12-2019	07-12-2019	_			
110	No:3 WBT STBD (2	L700 m ² Rusty Area +	+ 2000 kg. Steel Renewa	I)	19.08 days	19-11-2019	08-12-2019		<u>+</u>		
111		tank for safety prote			12 hrs	19-11-2019	19-11-2019		Safe		
112	Installations of m ³ /tank)	staging in way of stee	el renewal areas or coati	ng locations (350	48 hrs	21-11-2019	23-11-2019			Scaffolder[5]	
113	Removal of stag	ging			24 hrs	07-12-2019	08-12-2019				
114	Delivery of tank	to ship crew after da	amage repairs, cleaning o	of the location etc.	6 hrs	08-12-2019	08-12-2019				
115	Steel Works - 2	000 kg			6.5 days	22-11-2019	29-11-2019				
116	Transportatio	on of welding equipm	nents, lightening etc. on t	he location	12 hrs	22-11-2019	23-11-2019			Worker	
117	Cropping of c	orroded parts as per	marking		48 hrs	23-11-2019	25-11-2019			Croppe	
118	Fitting of nev	v parts as per class ru	ıles		48 hrs	24-11-2019	26-11-2019			Fitte	er[4]
119	Welding of th splatters etc.		class rules, grinding of b	urned areas, weld	96 hrs	24-11-2019	28-11-2019				Welder[4]
120	Delivery of th	ne tank to Superinten	ident & Class Surveyor		12 hrs	28-11-2019	29-11-2019				SI[0.1],PE[0.1],
121	Coating Works				6.33 days	30-11-2019	07-12-2019				
122	Mud & Scrap coating work	-	s (5m³/tank) - included s	taging controls for	24 hrs	30-11-2019	01-12-2019				Clea
123	Waterjetting	of the tanks 750 bars	s - 1000 bars for min. WJ	4 surface quality	72 hrs	01-12-2019	04-12-2019				
124		ne slime in way of the	e rusty areas for painting		60 hrs	01-12-2019	04-12-2019				
125	Application o	f first coat of RS 500	P - Chemco Epoxy		24 hrs	04-12-2019	05-12-2019				
126	Stripe coat a	nd close up applicatio	on with RS 500P - Chemc	о Ероху	16 hrs	05-12-2019	06-12-2019				
127	Second coat	- RA 500M - Chemco	Ероху		16 hrs	06-12-2019	06-12-2019				
128	Delivery of th	ne tank to Coating ins	spector & Superintenden	t & Class Surveyor	12 hrs	06-12-2019	07-12-2019				
129	No:4 WBT PS (170	0 m ² Rusty Area + 20	000 kg. Steel Renewal)		20.25 days	19-11-2019	09-12-2019				
130	Entrance to the	tank for safety prote	ections		12 hrs	19-11-2019	19-11-2019		Safe	ty	
131	Installations of m ³ /tank)	staging in way of stee	el renewal areas or coati	ng locations (350	48 hrs	21-11-2019	23-11-2019			Scaffolder[5]	
132	Removal of stag	ging			24 hrs	08-12-2019	09-12-2019				
133	Delivery of tank	to ship crew after da	amage repairs, cleaning o	of the location etc.	6 hrs	09-12-2019	09-12-2019				
134	Steel Works - 2	000 kg			6.5 days	22-11-2019	29-11-2019			V	
135	Transportatio	on of welding equipm	nents, lightening etc. on t	he location	12 hrs	22-11-2019	23-11-2019			Worker	
136	Cropping of c	orroded parts as per	marking		48 hrs	23-11-2019	25-11-2019			Croppe	r[3]
137	Fitting of nev	v parts as per class ru	ıles		48 hrs	24-11-2019	26-11-2019			Fitte	er[4]
138	Welding of the splatters etc.		class rules, grinding of b	urned areas, weld	96 hrs	24-11-2019	28-11-2019				Welder[4]
139	Delivery of th	ne tank to Superinten	ident & Class Surveyor		12 hrs	28-11-2019	29-11-2019				SI[0.1], PE[0.1],
		Task		Project Summary	-	lna	active Milestone	e		Manual Summar	y Rollup
	anta standa de la s	Split		External Tasks		Ina	active Summary			Manual Summar	у 🗸
www.m	arineindustry.net	Milestone	♦	External Milestone	•	Ma	anual Task			Start-only	C
		Summary		Inactive Task			uration-only			Finish-only	3
soluti	on@marineindus						-				
139 www.m	splatters etc.	Task Split Milestone Summary	ident & Class Surveyor	Project Summary External Tasks External Milestone		28-11-2019 Ina Ina Ma	29-11-2019 active Milestone active Summary anual Task	-		Manual Summar Start-only	



			MT		'	TANKER		/EY WIT	H CHE	MCO SYSTEMS	
D	Task Name				Duration	Start	Finish	17 Nov '1		24 Nov '19 5 S S M T W T F	01 Dec
140	Coating Works				7.5 days	30-11-2019	08-12-2019				
141	Mud & Scrap c coating works	leaning of the tank	s (5m ³ /tank) - included s	taging controls for	24 hrs	30-11-2019	01-12-2019				Cle
142	Waterjetting o	f the tanks 750 bar	s - 1000 bars for min. WJ	4 surface quality	72 hrs	01-12-2019	04-12-2019				
143	Washing of the stringers etc.	e slime in way of th	e rusty areas for painting	g, cleaning of	60 hrs	01-12-2019	04-12-2019				
144	Application of	first coat of RS 500	P - Chemco Epoxy		24 hrs	05-12-2019	06-12-2019				
145	Stripe coat and	l close up application	on with RS 500P - Chemc	о Ероху	16 hrs	06-12-2019	07-12-2019				
146	Second coat -	RA 500M - Chemco	Ероху		16 hrs	07-12-2019	07-12-2019				
147	Delivery of the	tank to Coating ins	spector & Superintenden	t & Class Surveyor	12 hrs	07-12-2019	08-12-2019				
148	No:4 WBT STBD (17	00 m ² Rusty Area	+ 2000 kg. Steel Renewa	I)	21.42 days	19-11-2019	10-12-2019	- II +			
149	Entrance to the t	ank for safety prote	ections		12 hrs	19-11-2019	19-11-2019		Safety		
150	Installations of st m ³ /tank)	aging in way of ste	el renewal areas or coati	ng locations (350	48 hrs	21-11-2019	23-11-2019			Scaffolder[5]	
151	Removal of stagi	ng			24 hrs	09-12-2019	10-12-2019				
152	Delivery of tank t	o ship crew after d	amage repairs, cleaning	of the location etc.	6 hrs	10-12-2019	10-12-2019				
153	Steel Works - 20	00 kg			8.5 days	22-11-2019	01-12-2019			V	
154	Transportatior	of welding equipm	nents, lightening etc. on t	the location	12 hrs	22-11-2019	23-11-2019			Worker	
155	Cropping of co	rroded parts as per	r marking		48 hrs	23-11-2019	25-11-2019			Cropper[3]	
156	Fitting of new	parts as per class ru	ules		48 hrs	24-11-2019	26-11-2019			Fitter[4]	
157	Welding of the splatters etc.	fitted parts as per	class rules, grinding of b	urned areas, weld	96 hrs	26-11-2019	30-11-2019				Welde
158	Delivery of the	tank to Superinter	ndent & Class Surveyor		12 hrs	30-11-2019	01-12-2019				\$1[0.1]
159	Coating Works				8.17 days	01-12-2019	09-12-2019				
160	Mud & Scrap o coating works	leaning of the tank	s (5m ³ /tank) - included s	taging controls for	24 hrs	01-12-2019	02-12-2019				Cl
161	Waterjetting o	f the tanks 750 bar	s - 1000 bars for min. WJ	4 surface quality	72 hrs	02-12-2019	05-12-2019				
162	Washing of the stringers etc.	e slime in way of th	e rusty areas for painting	g, cleaning of	60 hrs	02-12-2019	04-12-2019				
163	Application of	first coat of RS 500	P - Chemco Epoxy		24 hrs	06-12-2019	07-12-2019				
164	Stripe coat and	l close up application	on with RS 500P - Chemc	о Ероху	16 hrs	07-12-2019	08-12-2019				
165	Second coat -	RA 500M - Chemco	Ероху		16 hrs	08-12-2019	09-12-2019				
166	Delivery of the	tank to Coating ins	spector & Superintenden	t & Class Surveyor	12 hrs	09-12-2019	09-12-2019				
167	No:5 WBT PS (1700	m ² Rusty Area + 2	000 kg. Steel Renewal)		22.08 days	19-11-2019	11-12-2019		•		
168	Entrance to the t	ank for safety prote	ections		12 hrs	19-11-2019	20-11-2019		Safety		
169	Installations of st m ³ /tank)	aging in way of ste	el renewal areas or coati	ng locations (350	48 hrs	21-11-2019	23-11-2019			Scaffolder[5]	
170	Removal of stagi	ng			24 hrs	10-12-2019	11-12-2019				
171	Delivery of tank t	o ship crew after d	amage repairs, cleaning	of the location etc.	6 hrs	11-12-2019	11-12-2019				
172	Steel Works - 20	00 kg			8.5 days	22-11-2019	01-12-2019			V	
173	Transportation	of welding equipm	nents, lightening etc. on t	the location	12 hrs	22-11-2019	23-11-2019			Worker	
174	Cropping of co	rroded parts as per	r marking		48 hrs	23-11-2019	25-11-2019			Cropper[3]	
		Task		Project Summary			active Milestone	\diamond		Manual Summary Rollup	
		Split		External Tasks		Ina	active Summary			Manual Summary	
www.	marineindustry.net	Milestone		External Milestone	۲	Ma	anual Task]	Start-only	
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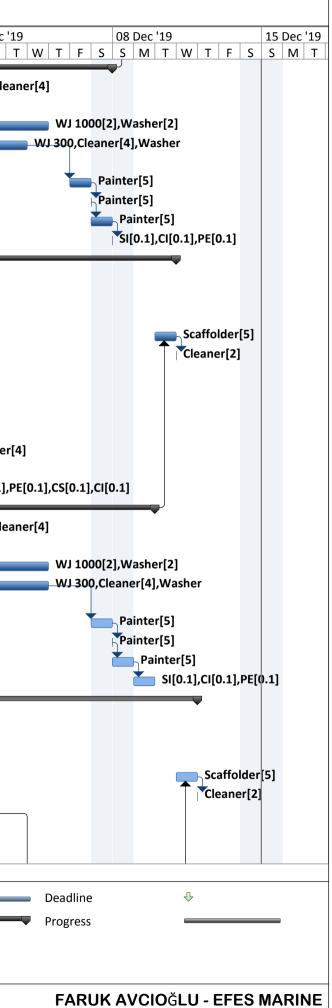
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Summary

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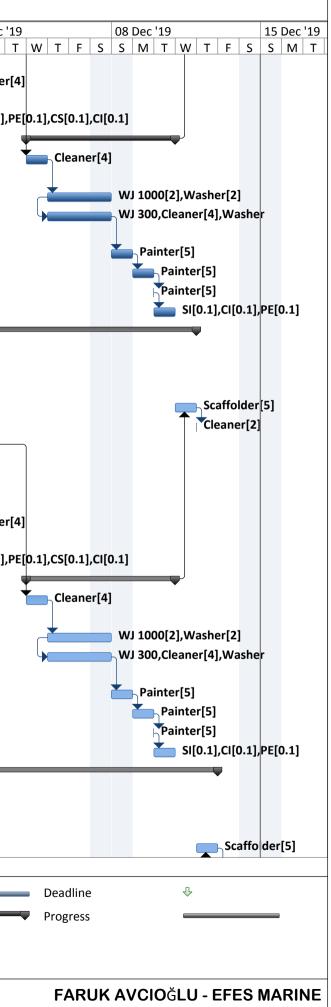


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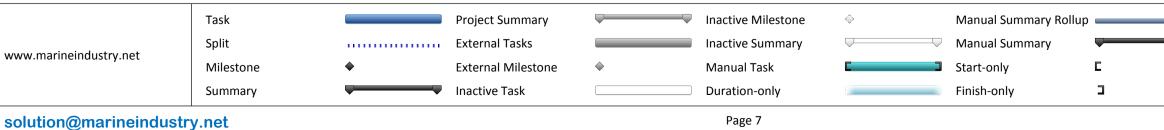
			MT		'	TANKER		VEY WI	ГН СНЕМ	CO SYSTEMS	
ID	Task Name				Duration	Start	Finish	17 Nov ' S S M			01 Dec S S M
175	Fitting of new	parts as per class re	ules		48 hrs	24-11-2019	26-11-2019			Fitter[4]	
176	Welding of th splatters etc.	e fitted parts as per	class rules, grinding of b	ourned areas, weld	96 hrs	26-11-2019	30-11-2019				Welde
177	Delivery of th	e tank to Superinter	ndent & Class Surveyor		12 hrs	30-11-2019	01-12-2019				SI[0.1],
178	Coating Works				6.33 days	04-12-2019	10-12-2019				
179	Mud & Scrap coating work	-	s (5m³/tank) - included	staging controls for	24 hrs	04-12-2019	05-12-2019				
180	Waterjetting	of the tanks 750 bar	rs - 1000 bars for min. W	/J4 surface quality	72 hrs	05-12-2019	08-12-2019				
181	Washing of the stringers etc.	ne slime in way of th	e rusty areas for paintin	g, cleaning of	60 hrs	05-12-2019	07-12-2019				
182	Application o	f first coat of RS 500	P - Chemco Epoxy		24 hrs	07-12-2019	08-12-2019				
183	Stripe coat ar	nd close up applicati	on with RS 500P - Chem	со Ероху	16 hrs	08-12-2019	09-12-2019				
184	Second coat -	RA 500M - Chemco	Ероху		16 hrs	09-12-2019	10-12-2019				
185	Delivery of th	e tank to Coating in	spector & Superintende	nt & Class Surveyor	12 hrs	10-12-2019	10-12-2019				
186	No:5 WBT STBD (1	700 m ² Rusty Area	+ 2000 kg. Steel Renewa	al)	22.08 days	19-11-2019	11-12-2019		•		
187	Entrance to the	tank for safety prot	ections		12 hrs	19-11-2019	20-11-2019	· · · · · · · · · · · · · · · · · · ·	Safety		
188	Installations of s m ³ /tank)	staging in way of ste	el renewal areas or coat	ing locations (350	48 hrs	21-11-2019	23-11-2019			Scaffolder[5]	
189	Removal of stag	ling			24 hrs	10-12-2019	11-12-2019				
190	Delivery of tank	to ship crew after d	amage repairs, cleaning	of the location etc.	6 hrs	11-12-2019	11-12-2019				
191	Steel Works - 20	000 kg			8 days	23-11-2019	01-12-2019				
192	Transportatio	on of welding equipn	nents, lightening etc. on	the location	12 hrs	23-11-2019	23-11-2019			Worker	
193	Cropping of c	orroded parts as per	r marking		48 hrs	23-11-2019	25-11-2019			Cropper[3]	
194	Fitting of new	v parts as per class re	ules		48 hrs	24-11-2019	26-11-2019			Fitter[4]	
195	Welding of th splatters etc.	e fitted parts as per	class rules, grinding of b	ourned areas, weld	96 hrs	26-11-2019	30-11-2019				Welde
196	Delivery of th	e tank to Superinter	ndent & Class Surveyor		12 hrs	30-11-2019	01-12-2019				SI[0.1],
197	Coating Works				6.33 days	04-12-2019	10-12-2019				
198	Mud & Scrap coating work	•	s (5m ³ /tank) - included	staging controls for	24 hrs	04-12-2019	05-12-2019				
199	Waterjetting	of the tanks 750 bar	rs - 1000 bars for min. W	/J4 surface quality	72 hrs	05-12-2019	08-12-2019				
200	Washing of th stringers etc.	ne slime in way of th	e rusty areas for paintin	g, cleaning of	60 hrs	05-12-2019	07-12-2019				
201	Application o	f first coat of RS 500	P - Chemco Epoxy		24 hrs	07-12-2019	08-12-2019				
202	Stripe coat ar	nd close up application	on with RS 500P - Chem	со Ероху	16 hrs	08-12-2019	09-12-2019				
203	Second coat -	RA 500M - Chemco	Ероху		16 hrs	09-12-2019	10-12-2019				
204	Delivery of th	e tank to Coating in	spector & Superintende	nt & Class Surveyor	12 hrs	10-12-2019	10-12-2019				
205	FOREPEAK (1700 r	m² Rusty Area + 200	0 kg. Steel Renewal)		23.25 days	19-11-2019	13-12-2019		¥		
206	Entrance to the	tank for safety prot	ections		12 hrs	19-11-2019	20-11-2019		Safety		
207	Installations of s m ³ /tank)	staging in way of ste	el renewal areas or coat	ing locations (350	48 hrs	23-11-2019	25-11-2019			Scaffolder[5]	
208	Removal of stag	ing			24 hrs	11-12-2019	12-12-2019				
		Task		Project Summary		lna	active Milestone	\$		Manual Summary Rollup 🕳	
	maringindustry not	Split		External Tasks		Ina	active Summary			Manual Summary 🛛 🛡	
vv vv W.	marineindustry.net	Milestone	•	External Milestone	\diamond	Ma	anual Task	Ľ		Start-only	
		Summary	~	Inactive Task		Du	ration-only			Finish-only	
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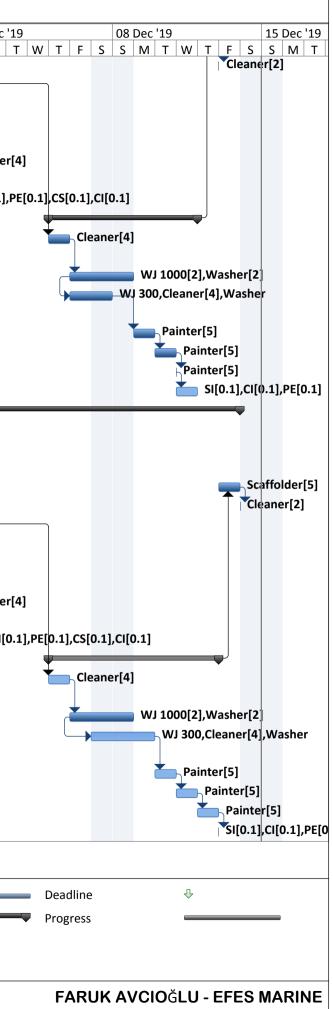
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MT - TANKER CAP SURVEY WITH CHEMCO SYSTEMS

ID	Task Name	Duration	Start	Finish	17 Nov		24 Nov '19	01 Dec '1
209	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	12-12-2019	13-12-2019	5 5 M		S S M T W T F	5 5 IVI
210	Steel Works - 2000 kg	6.5 days	24-11-2019	01-12-2019				
211	Transportation of welding equipments, lightening etc. on the location	12 hrs	24-11-2019	25-11-2019			Worker	
212	Cropping of corroded parts as per marking	48 hrs	25-11-2019	27-11-2019			Cropper[3]	
213	Fitting of new parts as per class rules	48 hrs	26-11-2019	28-11-2019			Fitter[4	l]
214	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	26-11-2019	30-11-2019				Welder
215	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	30-11-2019	01-12-2019				SI[0.1],F
216	Coating Works	7 days	04-12-2019	11-12-2019				
217	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	04-12-2019	05-12-2019				
218	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	05-12-2019	08-12-2019				
219	Washing of the slime in way of the rusty areas for painting, cleaning of stringers etc.	60 hrs	05-12-2019	08-12-2019				
220	Application of first coat of RS 500P - Chemco Epoxy	24 hrs	09-12-2019	10-12-2019				
221	Stripe coat and close up application with RS 500P - Chemco Epoxy	16 hrs	10-12-2019	10-12-2019				
222	Second coat - RA 500M - Chemco Epoxy	16 hrs	10-12-2019	11-12-2019				
223	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	11-12-2019	11-12-2019				
224	AFTPEAK (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	24.42 days	19-11-2019	14-12-2019				
225	Entrance to the tank for safety protections	12 hrs	19-11-2019	20-11-2019	Ц Ц —	Safety		
226	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	23-11-2019	25-11-2019		ĺ	Scaffolder[5]	
227	Removal of staging	24 hrs	13-12-2019	14-12-2019				
228	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	14-12-2019	14-12-2019				
229	Steel Works - 2000 kg	7 days	24-11-2019	01-12-2019			-	
230	Transportation of welding equipments, lightening etc. on the location	12 hrs	24-11-2019	25-11-2019			Worker	
231	Cropping of corroded parts as per marking	48 hrs	25-11-2019	27-11-2019			Cropper[3]	
232	Fitting of new parts as per class rules	48 hrs	26-11-2019	28-11-2019			Fitter[4	-
233	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	27-11-2019	01-12-2019				Welder
234	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	01-12-2019	01-12-2019				
235	Coating Works	8.08 days	04-12-2019	13-12-2019				
236	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	04-12-2019	05-12-2019				
237	Waterjetting of the tanks 750 bars - 1000 bars for min. WJ4 surface quality	72 hrs	05-12-2019	08-12-2019				
238	Washing of the slime in way of the rusty areas for painting, cleaning of stringers etc.	60 hrs	07-12-2019	09-12-2019				
239	Application of first coat of RS 500P - Chemco Epoxy	24 hrs	10-12-2019	11-12-2019				
240	Stripe coat and close up application with RS 500P - Chemco Epoxy	16 hrs	11-12-2019	11-12-2019				
241	Second coat - RA 500M - Chemco Epoxy	16 hrs	11-12-2019	12-12-2019				
242	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	12-12-2019	13-12-2019				



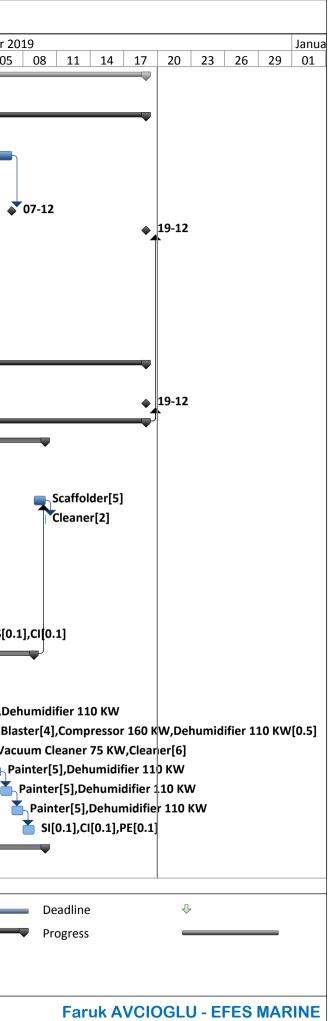


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D	Text1	Resource Name	VVOrk	Start	Finish	Details	4.7	••	•••	a c		ember 20		00						• •		January 202
						VA (a sel :	17	20	23	26	29	02	05	08	11	14	17	20	23	26	29	01
						Work																
1	Preparation	Worker		20-11-2019				76h	68h													
2	Steel Team	Cropper	1,728 hrs	21-11-2019	27-11-2019	Work		564h	972h	192h												
3	Steel Team	Fitter	2,304 hrs	22-11-2019	28-11-2019	Work		272h	1,440h	592h												
4	Steel Team	Welder	4,608 hrs	22-11-2019	01-12-2019	Work		64h	1,632h	1,984h	928h											
5	Superintendent	SI	28.8 hrs	26-11-2019	13-12-2019	Work				6.8h	7.6h	3.6h	4h	4.4h	2.4h							
6	Project Engineer	PE	28.8 hrs	26-11-2019	13-12-2019	Work				6.8h	7.6h	3.6h	4h	4.4h	2.4h							
7	Class Surveyor	CS	14.4 hrs	26-11-2019	01-12-2019	Work				6.8h	7.6h											
8	Coating Inspector	CI	28.8 hrs	26-11-2019	13-12-2019	Work				6.8h	7.6h	3.6h	4h	4.4h	2.4h							
9	Coating Team	Cleaner	4,176 hrs	27-11-2019	14-12-2019	Work				640h	1,104h	1,132h	1,004h	248h	36h	12h						
10	Waterjetting	WJ 1000	1,728 hrs	28-11-2019	08-12-2019	Work				128h	472h	536h	476h	116h								
11	Waterjetting	WJ 300	720 hrs	28-11-2019	09-12-2019	Work				64h	188h	228h	190h	50h								
12	Coating Team	Painter	3,360 hrs	30-11-2019	12-12-2019	Work					420h	800h	940h	980h	220h							
13	Coating Team	Scaffolder	4,290 hrs	19-11-2019	14-12-2019	Work	340h	1,800h	740h			330h	320h	360h	400h							
14	Coating Team	Safety		18-11-2019	20-11-2019		112h	, 32h														
15	Coating Team	Washer		28-11-2019						192h	660h	764h	666h	166h								

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D F	Resource Name	Туре	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use Ac	crue At	Base Calendar
1 🚺	Worker	Work		W	Coating	5	<mark>5</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
2 🤇	Cropper	Work		С	Steel	20	<mark>)</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
3 <mark>F</mark>	Fitter	Work		F	Steel	20	<mark>)</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pro	orated	24 Hours
4 <mark>\</mark>	Welder	Work		W	Steel	30	<mark>)</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pro	orated	24 Hours
5 <mark>5</mark>	SI	Work		S	Owner	1	<mark>l</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
6 <mark>F</mark>	PE	Work		Р	Yard	1	<mark>l</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
7 🤇	CS	Work		С	Class	1	<mark>l</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
8 <mark>(</mark>	CI	Work		С	Inspector	1	<mark>l</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
9 (Cleaner	Work		С	Coating	16	<mark>5</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
10 💧	WJ 1000	Work		W	Coating	8	<mark>3</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
11 💧	WJ 300	Work		W	Coating		<mark>1</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
12 <mark>F</mark>	Painter	Work		Р	Coating	15	<mark>5</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
13 5	Scaffolder	Work		S	Yard	25	<mark>5</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours
14 <mark>5</mark>	Safety	Work		S	Yard	2	<mark>1</mark> \$0.00/hr	\$0.00/hr	\$0.00 Pro	orated	24 Hours
15 🐧	Washer	Work		W	Coating	12	2 \$0.00/hr	\$0.00/hr	\$0.00 Pr	orated	24 Hours

			MT	• • • • • • • • • • • • • • • • • • • •	T	ANKER	CAP SUR		H STAN	DAF	RD EP	OXIES	
ID	Task Name					Duration	Start	Finish	11 14	17	20 2	2 26 5	December 2 9 02 05
0	MT	TANKER BALLA	ST TANK UPGRADING	PROJECT FOR CAP	SURVEY -	30.75 days	18-11-2019	19-12-2019	11 14		20 2	5 20 2	.9 02 03
	STANDARD EPOXIES -	GRID BLASTING							l				
1	Summary					30.75 days	18-11-2019	19-12-2019	l	\$			
2	Arrival of the vessel					0 days	18-11-2019	18-11-2019	l	1 {	3-11	٦	
3	Docking of the vess	el (Due to high hum	nidity, yard will prefer to	do coating process ir	nside the	12 days	25-11-2019	07-12-2019	1			*	
		the grid cleaning a	nd ventilation yard will p			, i							
4	Undocking of the ve	· · · · · · · · · · · · · · · · · · ·				0 days	07-12-2019	07-12-2019	1				4
5	Departure of the ve					0 days	19-12-2019	19-12-2019	1				
6	Steel Works (Total ~24					13.5 days	18-11-2019	01-12-2019	1	ψ -			
7	Starting of the steel					5.5 days	18-11-2019	23-11-2019	1	ψ -			
8	Inspection and m	arking of the tanks	with class surveyor & UT	M & Coating Inspect	or &	3 days	18-11-2019	21-11-2019	1				
	Superintendent	Ŭ	,	U 1		· ·			l				
9	Drawing preparat	tions as per markin	g			5 days	18-11-2019	23-11-2019	l				
10	Completion of steel					, O days		01-12-2019	l				• 01-12
11	Coating Works (~20.4	00 m²) - With Stand	dard Epoxy System (2 Co	at + 1 Stripe Coat)		21.75 days	27-11-2019	19-1 2-20 19	l				
12	Starting of coating v			· · ·		0 days	27-11-2019	27-11-2019	l			4 27-11	1
13	Completion of coati	ing works				0 days	19-12-2019	19-12-2019	l				
14	Ballast Tank Upgradin	g Works (Steel & C	oating Works) - 12 Tank	5		30.25 days	18-11-2019	19-12-2019	l	🖛		<u> </u>	
15	No:1 WBT PS (1700	m ² Rusty Area + 2	000 kg. Steel Renewal)			21 days	18-11-2019	09-12-2019	l				
16	Entrance to the ta	ank for safety prote	ections			12 hrs	18-11-2019	19-11-2019	l	- S	afety		
17			el renewal areas or coati	ng locations (350 m ³ /	/tank)	48 hrs	19-11-2019	21-11-2019	l		Scaffo	older[5]	
18	Removal of stagir	ng				18 hrs	08-12-2019	09-12-2019	l				
19		-	amage repairs, cleaning o	of the location etc.		6 hrs	09-12-2019	09-12-2019	l				
20	Steel Works - 200	•				6.5 days		27-11-2019	l		-		
21		•	ents, lightening etc. on t	he location		12 hrs		21-11-2019	l		Worke	er	
22	•	rroded parts as per				48 hrs	21-11-2019	23-11-2019	l		r 📩 Cr	ropper[3]	
23		parts as per class ru				48 hrs	22-11-2019	24-11-2019	l			Fitter[4]	
24		• •	class rules, grinding of bu	urned areas, weld spl	atters etc.	96 hrs	22-11-2019	26-11-2019	l			Weld	er[4]
25	-		ident & Class Surveyor	· · ·		12 hrs	26-11-2019	27-11-2019	l			\$ 1[0.1],PE[0.1],CS[0
26	Coating Works	·	· ·			11.5 days		08-12-2019	l				
27	-	leaning of the tank	s (5m ³ /tank) - included st	aging controls for co	ating works	-		28-11-2019	l			📥 Clea	aner[4]
28		e tank for salt & slin		0 0	0	36 hrs		29-11-2019	l			—	WJ 300[2]
29		ank before grid bla				12 hrs		30-11-2019	l			F	Cleaner[4],De
30		f the tank to SA2	0			72 hrs		03-12-2019	l			Ì	Grid Bla
31	Vacuum cleani					36 hrs		04-12-2019	l				Vac
32		-	Standard Epoxy			24 hrs		05-12-2019	l				P
33			on with Standa	ard Epoxy		24 hrs		06-12-2019	l				
34	•	Star		F - 7		24 hrs		07-12-2019	l				
35			spector & Superintenden	t & Class Surveyor		12 hrs		08-12-2019	l				
36		-	+ 2000 kg. Steel Renewal	•		21.25 days		10-12-2019	l				
37	-	ank for safety prote		<u> </u>		12 hrs		19-11-2019	l	S	afety		
											-		
		Task		Project Summary			nactive Mileston	e \diamond		Manu	ual Summa	ary Rollup 🖕	
		Split		External Tasks			nactive Summary				ual Summa		
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		Summary	\checkmark	Inactive Task			ouration-only			Finish	n-only		
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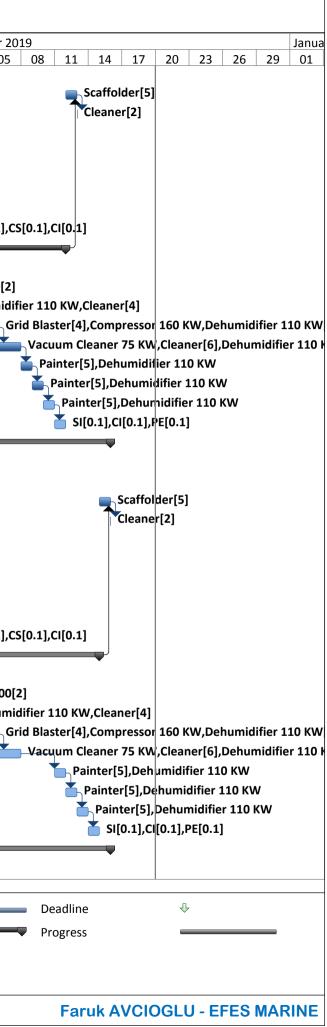
	Task Name	Duration	Start	Finish		Dec
						7 20 23 26 29 (
38	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs		21-11-2019		Scaffolder[5]
39	Removal of staging	24 hrs		09-12-2019		
10	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs		10-12-2019		
11	Steel Works - 2000 kg	6.5 days	20-11-2019	27-11-2019		
2	Transportation of welding equipments, lightening etc. on the location	12 hrs	20-11-2019	21-11-2019		Worker
3	Cropping of corroded parts as per marking	48 hrs	21-11-2019	23-11-2019		Cropper[3]
4	Fitting of new parts as per class rules	48 hrs	22-11-2019	24-11-2019		Fitter[4]
5	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	22-11-2019	26-11-2019		Welder[4]
5	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	26-11-2019	27-11-2019		\$I[0.1],PE[0
7	Coating Works	11.5 days	27-11-2019	08-12-2019		
3	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019		Cleaner[4
9	Washing of the tank for salt & slime	36 hrs	28-11-2019	29-11-2019		WJ В
)	Drying of the tank before grid blasting	12 hrs	29-11-2019	30-11-2019		Dehu
	Grid blasting of the tank to SA2	72 hrs	30-11-2019	03-12-2019		
	Vacuum cleaning of the tank	36 hrs	03-12-2019	04-12-2019		
	Application of first coat of Standard Epoxy	24 hrs	04-12-2019	05-12-2019		
	Stripe coat and close up application with Standard Epoxy	24 hrs	05-12-2019	06-12-2019		
	Second coat Standard Epoxy	24 hrs	06-12-2019	07-12-2019		
;	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	08-12-2019	08-12-2019		
,	No:2 WBT PS (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	21.25 days	18-11-2019	10-12-2019		•
	Entrance to the tank for safety protections	12 hrs	18-11-2019	19-11-2019		Safety
	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	19-11-2019	21-11-2019		Scaffolder[5]
)	Removal of staging	24 hrs	08-12-2019	09-12-2019		
L	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	09-12-2019	10-12-2019		
2	Steel Works - 2000 kg	6.5 days	20-11-2019	27-11-2019		
}	Transportation of welding equipments, lightening etc. on the location	12 hrs	20-11-2019	21-11-2019		Worker
ŀ	Cropping of corroded parts as per marking	48 hrs	21-11-2019	23-11-2019		Cropper[3]
;	Fitting of new parts as per class rules	48 hrs	22-11-2019	24-11-2019		Fitter[4]
5	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	22-11-2019	26-11-2019		Welder[4]
,	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	26-11-2019	27-11-2019		\$I[0.1],PE[0
;	Coating Works	11.5 days	27-11-2019	08-12-2019		
)	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019		Cleaner[4
)	Washing of the tank for salt & slime	36 hrs	28-11-2019	29-11-2019		WJ β(
		12 hrs	29-11-2019	30-11-2019		Dehu
	Grid blasting of the tank to SA2	72 hrs	30-11-2019	03-12-2019		
	Vacuum cleaning of the tank	36 hrs	03-12-2019	04-12-2019		
	Application of first coat of Standard Epoxy	24 hrs	04-12-2019	05-12-2019		
	Stripe coat and close up application with Standard Epoxy	24 hrs	05-12-2019	06-12-2019		
	Second coat Standard Epoxy	24 hrs	06-12-2019	07-12-2019		
,	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs		08-12-2019		
;	No:2 WBT STBD (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	24.25 days	18-11-2019	13-12-2019	'	↓
)	Entrance to the tank for safety protections	12 hrs	18-11-2019	19-11-2019		Safety
	Task Project Summary V	ln	active Mileston	•	Ma	anual Summary Rollup
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5 08 11 1	14	17	20	23	26	29	01
0.1],CI[0.1]							
	[1]						
er 110 KW,Cleaner Blaster[4],Compres		60 K	W De	humid	ifier 1	10 KW	[0.5]
acuum Cleaner 75							
Painter[5],Dehum							
Painter[5],Dehu							
Painter[5],De				KW			
	.1J,PC	[0.1]					
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Scaffolde Cleaner[2							
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0.1],CI[0.1]							
er 110 KW,Cleaner	[4]						
Blaster[4],Compres		60 K	W,De	humid	ifier 1	10 KW	[0.5]
acuum Cleaner 75				Dehur	nidifie	r 110	ĸw
Painter[5],Dehum				v			
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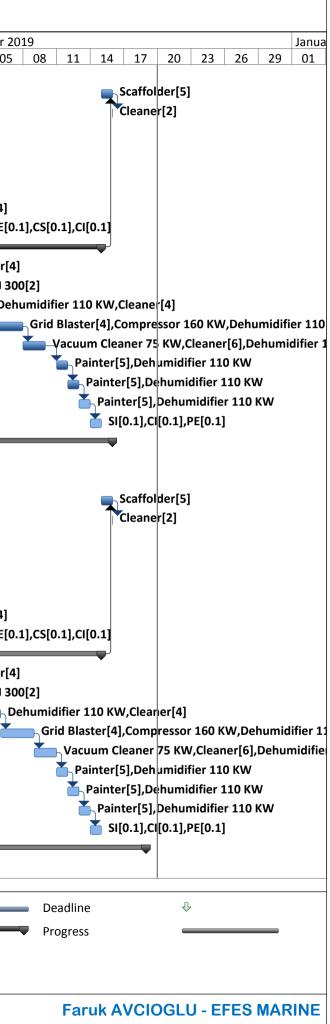
)	Task Name	Duration	Start	Finish				Decem
					11 14			29 02
80	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	19-11-2019				Scaffolder[5]	
81	Removal of staging	24 hrs		12-12-2019				
82	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs		13-12-2019				
83	Steel Works - 2000 kg	6.5 days		27-11-2019				
84		12 hrs		21-11-2019			Worker	
85	Cropping of corroded parts as per marking	48 hrs		23-11-2019			Cropper[3]	
86	Fitting of new parts as per class rules	48 hrs		24-11-2019			Fitter[4]	
87	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs		26-11-2019			Weld	- 1
88		12 hrs		27-11-2019			[*] \$1[0.1	.],PE[0.1],
89		14.5 days		11-12-2019				
90	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs		28-11-2019			Clea	aner[4]
91	Washing of the tank for salt & slime	36 hrs	29-11-2019	01-12-2019				WJ 300
92	Drying of the tank before grid blasting	12 hrs	01-12-2019	01-12-2019				Deh
93	Grid blasting of the tank to SA2	72 hrs	01-12-2019	04-12-2019				- -
94	Vacuum cleaning of the tank	36 hrs	04-12-2019	06-12-2019				
95	Application of first coat of Standard Epoxy	24 hrs	07-12-2019	08-12-2019				
96	Stripe coat and close up application with Standard Epoxy	24 hrs	08-12-2019	09-12-2019				
97	Second coat Standard Epoxy	24 hrs	09-12-2019	10-12-2019				
98	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	11-12-2019	11-12-2019				
99	No:3 WBT PS (1700 m² Rusty Area + 2000 kg. Steel Renewal)	23.75 days	19-11-2019	13-12-2019		🖤		
100	Entrance to the tank for safety protections	12 hrs	19-11-2019	19-11-2019			Safety	
101	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	19-11-2019	21-11-2019			Scaffolder[5]	
102	Removal of staging	24 hrs	11-12-2019	12-12-2019				
103	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	12-12-2019	13-12-2019				
104	Steel Works - 2000 kg	6.5 days	21-11-2019	27-11-2019				
105	Transportation of welding equipments, lightening etc. on the location	12 hrs	21-11-2019	21-11-2019			Worker	
106	Cropping of corroded parts as per marking	48 hrs	21-11-2019	23-11-2019			Cropper[3]	
107	Fitting of new parts as per class rules	48 hrs	22-11-2019	24-11-2019			Fitter[4]	
108	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	23-11-2019	27-11-2019			Welde	er[4]
109		12 hrs	27-11-2019	27-11-2019			📩 sı[0).1],PE[0.
110	Coating Works	14 days	27-11-2019	11-12-2019			-	
111	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	27-11-2019	28-11-2019			 c	leaner[4]
112	Washing of the tank for salt & slime	36 hrs	29-11-2019	01-12-2019				🖕 WJ 30
113	Drying of the tank before grid blasting	12 hrs	01-12-2019	01-12-2019				👗 Deh
114	Grid blasting of the tank to SA2	72 hrs	03-12-2019	06-12-2019				
L15	Vacuum cleaning of the tank	36 hrs	06-12-2019	07-12-2019				
116	Application of first coat of Standard Epoxy	24 hrs	07-12-2019	08-12-2019				
17	Stripe coat and close up application with	24 hrs	08-12-2019	09-12-2019				
118	Second coat Standard Epoxy	24 hrs	09-12-2019	10-12-2019				
119		12 hrs		11-12-2019				
120	No:3 WBT STBD (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	23.75 days		13-12-2019		🔶		
121		12 hrs		19-11-2019			Safety	
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	Task Project Summary V	ln	active Mileston	e		Man	ual Summary Rollup 📼	
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2019								Janua
05 08	11	14	17	20	23	26	29	01
0.1],CI[(idifier 1: rid Blast Vacuun	0.1] 10 KW, ter[4],C n Clean ainter[Painte	Compre er 75 K 5],Deh	r[2] ssor 1 W,Cle umidif ehumic Dehum	60 KW aner[6 lier 11 difier 1 nidifie	5],Deh 0 KW L10 KW r 110 H	umidii V		-
:S[0.1],C		Scaffol Ćleane						
	aster[4] cuum C ainter[Painte Painte	,Comp leaner 5],Deh	oressor 75 KW umidif ehumio Dehur	,Clear lier 11 difier 1 nidifie	ner[6], 0 KW L10 KW r 110 H	Dehur V		
	Deadling Progress	-		Ţ				
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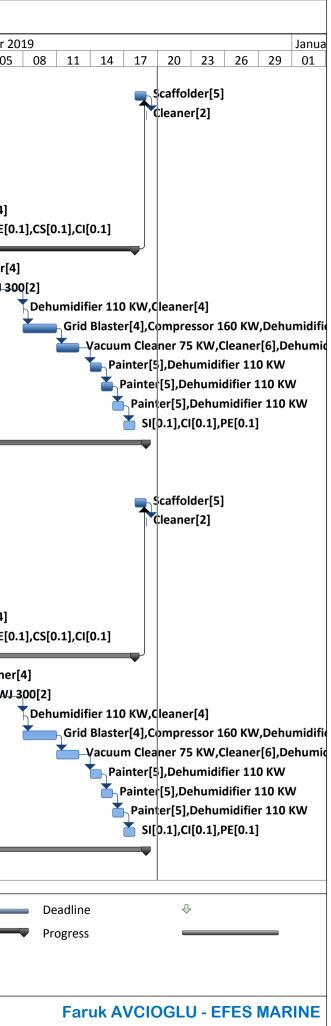
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D	Task Name	Duration	Start	Finish	11 11	47		Decembe
122	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	21-11-2019	23-11-2019	11 14	17	20 23 26 29 \$caffolder[5]	02
123	Removal of staging	24 hrs	11-12-2019					
124	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	12-12-2019					
125		6.5 days	22-11-2019					
126		12 hrs	22-11-2019				Worker	
127	Cropping of corroded parts as per marking	48 hrs	23-11-2019				Cropper[3]	
128	Fitting of new parts as per class rules	48 hrs	24-11-2019				Fitter[4]	
129		96 hrs	24-11-2019					elder[4]
130		12 hrs		29-11-2019				0.1],PE[0.:
131		12.5 days	29-11-2019					
132	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	•	29-11-2019				, in the second se	leaner[4]
133	Washing of the tank for salt & slime	36 hrs		01-12-2019				WJ 30
134		12 hrs	01-12-2019				_	Dehun
134		72 hrs	03-12-2019					
135								
	Vacuum cleaning of the tank	36 hrs	06-12-2019					
137	Application of first coat of Standard Epoxy	24 hrs	07-12-2019					
138	Stripe coat and close up application with Standard Epoxy	24 hrs	08-12-2019					
139	Second coat Standard Epoxy	24 hrs	09-12-2019					
140	, 3, , , , , , , , , , , , , , , , , ,	12 hrs	11-12-2019					
141		26.75 days				U T		
142		12 hrs	19-11-2019				Safety	
143		48 hrs	21-11-2019				Scaffolder[5]	
144	Removal of staging	24 hrs	14-12-2019	15-12-2019				
145	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	15-12-2019	16-12-2019				
146	Steel Works - 2000 kg	6.5 days	22-11-2019	29-11-2019				
147	Transportation of welding equipments, lightening etc. on the location	12 hrs	22-11-2019	23-11-2019			Worker	
148	Cropping of corroded parts as per marking	48 hrs	23-11-2019	25-11-2019			Cropper[3]	
149	Fitting of new parts as per class rules	48 hrs	24-11-2019	26-11-2019			Fitter[4]	
150	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	24-11-2019	28-11-2019				elder[4]
151	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	28-11-2019	29-11-2019			\$ 1[0	D.1],PE[O.
152	Coating Works	15.5 days	29-11-2019	14-12-2019				
153	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	29-11-2019	30-11-2019			₫ q	[leaner[4]
154	Washing of the tank for salt & slime	36 hrs	01-12-2019	02-12-2019				📥 🗤 WJ S
155	-	12 hrs	02-12-2019	03-12-2019				Deh
156		72 hrs		06-12-2019				
157	Vacuum cleaning of the tank	36 hrs	06-12-2019	07-12-2019				
158	Application of first coat of Standard Epoxy	24 hrs	10-12-2019					
159	Stripe coat and close up application withStandard Epoxy	24 hrs	11-12-2019					
160	Second coat	24 hrs	12-12-2019					
161		12 hrs	14-12-2019					
162		26.75 days						
163		12 hrs	19-11-2019				Safety	
105		12 1113	15 11 2015	15 11 2015			1 •	
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	Task Name				Dur	ration	Start	Finish				Decemb
									11 14	17	20 23 26 29	9 02
164			l renewal areas or coati	ng locations (350 m ³ /ta		hrs	21-11-2019				Scaffolder[5]	
165	Removal of stagin	•				hrs	14-12-2019					
166		•	mage repairs, cleaning	of the location etc.	6 h		15-12-2019					
167	Steel Works - 200	•				5 days	22-11-2019					-]
168			ents, lightening etc. on I	he location		hrs	22-11-2019				Worker	
169		roded parts as per				hrs	23-11-2019				Cropper[3]	
170		oarts as per class rul				hrs	24-11-2019				Fitter[4]	
171			lass rules, grinding of b	urned areas, weld splat		hrs		30-11-2019				Welder
172	Delivery of the	tank to Superintend	dent & Class Surveyor		12	hrs	30-11-2019	01-12-2019				\$I[0.1],
173	Coating Works				13.	.5 days	01-12-2019	14-12-2019			4	
174	Mud & Scrap c	eaning of the tanks	(5m ³ /tank) - included s	taging controls for coat	ing works 24	hrs	01-12-2019	02-12-2019				Clear
175	Washing of the	tank for salt & slim	e		36	hrs	02-12-2019	03-12-2019				<u> </u>
176	Drying of the ta	ank before grid blast	ting		12	hrs	04-12-2019	05-12-2019				
177	Grid blasting of	the tank to SA2			72	hrs	05-12-2019	08-12-2019				
178	Vacuum cleani	ng of the tank			36	hrs	08-12-2019	09-12-2019				
L79	Application of	irst coat of	Standard Epoxy		24	hrs	10-12-2019	11-12-2019				
80			n with Stand	ard Epoxy	24	hrs	11-12-2019	12-12-2019				
.81		Stand			24	hrs	12-12-2019	13-12-2019				
82			pector & Superintenden	t & Class Surveyor	12	hrs	14-12-2019					
.83			00 kg. Steel Renewal)			.25 days				(
84		ank for safety protect				hrs	19-11-2019				Safety	
85			l renewal areas or coati	ng locations (350 m ³ /ta		hrs	21-11-2019				\$caffolder[5]	
.86	Removal of stagir			18 10 cutions (550 m / tu	-	hrs	14-12-2019					
.87		•	mage repairs, cleaning	of the location etc	6 h		15-12-2019					
.88	Steel Works - 200	•				5 days	22-11-2019					
.89		•	ents, lightening etc. on t	the location		hrs	22-11-2019				Worker	•
190		roded parts as per				hrs	23-11-2019				Cropper[3]	a 📙
91		parts as per class rul	-			hrs	24-11-2019				Fitter[4]	
.92		•	lass rules, grinding of b	urned areas, weld splat		hrs	26-11-2019					, Weld
.93			dent & Class Surveyor	arrieu areas, weiu spiat		hrs		01-12-2019				\$1[0.1
.94	Coating Works	tank to superment	dent & class Surveyor			.5 days	01-12-2019					
.94		opping of the tanks	(5m ³ /tank) - included s	taging controls for cost		-	01-12-2019					Clea
.95	· ·					hrs	01-12-2019					
		tank for salt & slim										
.97	, .	ank before grid blast	ting			hrs	05-12-2019					
.98		the tank to SA2				hrs	06-12-2019					
.99	Vacuum cleani		o			hrs	09-12-2019					
00	••	irst coat of	• •			hrs		11-12-2019				
01	•		n with Stand	ard Epoxy		hrs	11-12-2019					
02		Stand				hrs	12-12-2019					
203	· · ·		pector & Superintenden	•		hrs	14-12-2019					
04		•	2000 kg. Steel Renewa	1)		.25 days						
05	Entrance to the ta	ank for safety protect	ctions		12	hrs	19-11-2019	20-11-2019			Safety	
		Task		Project Summary		- In	active Milestone	•		Man	ual Summary Rollup 🕳	
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	2 ····	Milestone	•	External Milestone	•	N	1anual Task]	Start	t-only E	
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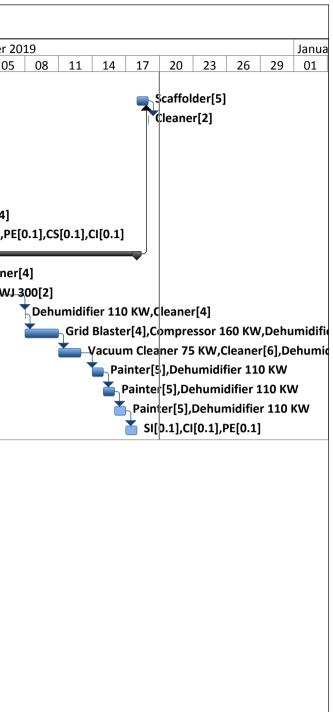


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D	Task Name	Duration	Start	Finish				December
206		40 h.m.	21 11 2010	22 11 2010	11 14	17	20 23 26 29 Scaffolder[5]	02 0
206		48 hrs	21-11-2019					
207	Removal of staging	24 hrs 6 hrs		18-12-2019 19-12-2019				
208	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.							
		8 days		01-12-2019			Worker	
210 211		12 hrs		23-11-2019 25-11-2019			Cropper[3]	
211	Cropping of corroded parts as per marking	48 hrs					Fitter[4]	
	Fitting of new parts as per class rules	48 hrs		26-11-2019				Welder[4
213	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs		30-11-2019			,	\$I[0.1],PE
214		12 hrs		01-12-2019				510.13,11
215		16.5 days		17-12-2019				Cleane
216	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works			02-12-2019			-	WJ
217	Washing of the tank for salt & slime	36 hrs		04-12-2019				VVJ
218	Drying of the tank before grid blasting	12 hrs		08-12-2019				
219	Grid blasting of the tank to SA2	72 hrs		11-12-2019				
220	Vacuum cleaning of the tank	36 hrs		12-12-2019				
221	Application of first coat of Standard Epoxy	24 hrs		14-12-2019				
222	Stripe coat and close up application with Standard Epoxy	24 hrs		15-12-2019				
223	Second coat Standard Epoxy	24 hrs		16-12-2019				
224	, 5, 1, ,	12 hrs		17-12-2019				
225		29.25 days						
226		12 hrs		20-11-2019			Safety	_
227	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	48 hrs	23-11-2019	25-11-2019			Scaffolder[5]]
228	Removal of staging	24 hrs	17-12-2019	18-12-2019				
229	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs	18-12-2019	19-12-2019				
230	Steel Works - 2000 kg	6.5 days	24-11-2019	01-12-2019				ו
231	Transportation of welding equipments, lightening etc. on the location	12 hrs	24-11-2019	25-11-2019			Worker	
232	Cropping of corroded parts as per marking	48 hrs	25-11-2019	27-11-2019			Cropper	[3]
233	Fitting of new parts as per class rules	48 hrs	26-11-2019	28-11-2019			Fitter[' I T
234	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	26-11-2019	30-11-2019			,	Welder[4
235	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	30-11-2019	01-12-2019				\$I[0.1],PE
236	Coating Works	16 days	01-12-2019	17-12-2019			l l	Ψ
237	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	01-12-2019	02-12-2019				Clear
238	Washing of the tank for salt & slime	36 hrs	03-12-2019	05-12-2019				
239	Drying of the tank before grid blasting	12 hrs	07-12-2019	08-12-2019				
240	Grid blasting of the tank to SA2	72 hrs	08-12-2019	11-12-2019				
241	Vacuum cleaning of the tank	36 hrs	11-12-2019	12-12-2019				
242	Application of first coat of Standard Epoxy	24 hrs	13-12-2019	14-12-2019				
243	Stripe coat and close up application with Standard Epoxy	24 hrs	14-12-2019	15-12-2019				
244	Second coat Standard Epoxy	24 hrs	15-12-2019	16-12-2019				
245	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	17-12-2019	17-12-2019				
246	AFTPEAK (1700 m ² Rusty Area + 2000 kg. Steel Renewal)	29.25 days	19-11-2019	19-12-2019				
247	Entrance to the tank for safety protections	12 hrs	19-11-2019	20-11-2019		4	Safety	
	Task Project Summary	lr	active Mileston	e 🔶		Man	ual Summary Rollup 🛑	
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D	Task Name	Duration	Start	Finish				December
248	Installations of staging in way of stagl renewal areas or coating locations (250 m^3 /tagk)	48 hrs	22 11 2010	25-11-2019	11 14	17 20	23 26 29 \$caffolder[
248	Installations of staging in way of steel renewal areas or coating locations (350 m ³ /tank)	24 hrs		18-12-2019				-1
249	Removal of staging							
	Delivery of tank to ship crew after damage repairs, cleaning of the location etc.	6 hrs		19-12-2019				
251	Steel Works - 2000 kg	7 days		01-12-2019				
252	Transportation of welding equipments, lightening etc. on the location	12 hrs		25-11-2019			Worker	
253	Cropping of corroded parts as per marking	48 hrs	25-11-2019	27-11-2019			Croppe	
254	Fitting of new parts as per class rules	48 hrs	26-11-2019	28-11-2019			Fitter	·[4]
255	Welding of the fitted parts as per class rules, grinding of burned areas, weld splatters etc.	96 hrs	27-11-2019	01-12-2019				Welder[4]
256	Delivery of the tank to Superintendent & Class Surveyor	12 hrs	01-12-2019	01-12-2019				5]\$I[0.1],F
257	Coating Works	15.5 days	02-12-2019	17-12-2019				
258	Mud & Scrap cleaning of the tanks (5m ³ /tank) - included staging controls for coating works	24 hrs	02-12-2019	03-12-2019				Clean
259	Washing of the tank for salt & slime	36 hrs	03-12-2019	05-12-2019				1 -W
260	Drying of the tank before grid blasting	12 hrs	07-12-2019	08-12-2019				
261	Grid blasting of the tank to SA2	72 hrs	08-12-2019	11-12-2019				
262	Vacuum cleaning of the tank	36 hrs	11-12-2019	12-12-2019				
263	Application of first coat of Standard Epoxy	24 hrs	13-12-2019	14-12-2019				
264	Stripe coat and close up application with Standard Epoxy	24 hrs	14-12-2019	15-12-2019				
265	Second coat Standard Epoxy	24 hrs	15-12-2019	16-12-2019				
266	Delivery of the tank to Coating inspector & Superintendent & Class Surveyor	12 hrs	17-12-2019	17-12-2019				

	Task		Project Summary	Inactive Milestone	\diamond	Manual Summary Rollup	
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Deadline
Progress

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ID	Text1	Resource Name	Nork Start	Finish	Details	December 2019												Janua			
						17	20	23	26	29	02	05	08	11	14	17	20	23	26	29	01
					Work																
1	Preparation	Worker	144 hrs 20-11-2019	25-11-2019	Work		76h	68h													
2	Steel Team	Cropper	1,728 hrs 21-11-2019	27-11-2019	Work		564h	972h	192h												
3	Steel Team	Fitter	2,304 hrs 22-11-2019	28-11-2019	Work		272h	1,440h	592h												
4	Steel Team	Welder	4,608 hrs 22-11-2019	01-12-2019	Work		64h	1,632h	1,984h	928h											
5	Superintendent	SI	28.8 hrs 26-11-2019	17-12-2019	Work				6.8h	7.6h			3.6h	3.6h	3.6h	3.6h					
6	Project Engineer	PE	28.8 hrs 26-11-2019	17-12-2019	Work				6.8h	7.6h			3.6h	3.6h	3.6h	3.6h					
7	Class Surveyor	CS	14.4 hrs 26-11-2019	01-12-2019	Work				6.8h	7.6h											
8	Coating Inspector	CI	28.8 hrs 26-11-2019	17-12-2019	Work				6.8h	7.6h			3.6h	3.6h	3.6h	3.6h					
9	Coating Team	Cleaner	4,464 hrs 27-11-2019	19-12-2019	Work				480h	656h	1,040h	968h	564h	684h	36h	36h					
10	Waterjetting	WJ 300	864 hrs 28-11-2019	05-12-2019	Work				96h	368h	368h	32h									
11	Coating Team	Painter	4,320 hrs 04-12-2019	16-12-2019	Work						60h	1,080h	1,080h	1,080h	1,020h						
12	Coating Team	Scaffolder	4,290 hrs 19-11-2019	18-12-2019	Work	340h	1,800h	740h					330h	360h	360h	360h					
13	Coating Team	Safety	144 hrs 18-11-2019	20-11-2019	Work	112h	32h														
14	Coating Team	Dehumidifier 110 KW	1,836 hrs 29-11-2019	16-12-2019	Work					126h	254h	488h	428h	336h	204h						
15	-	Grid Blaster	3,456 hrs 30-11-2019	11-12-2019	Work					496h	1,136h	800h	928h	96h							
16	-	Compressor 160 KW	864 hrs 30-11-2019	11-12-2019	Work					124h	284h	200h	232h	24h							
17	-	Vacuum Cleaner 75 KW	432 hrs 03-12-2019	12-12-2019	Work						112h	140h	72h	108h							

	MT	•••••	- BALLAST	TANK	COATING	G APPLI	CATION		RID BLASTING	
D	Resource Name	Туре	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use Base Calend	dar
1	Worker	Work		W	Coating	5	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
2	Cropper	Work		С	Steel	20	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
3	Fitter	Work		F	Steel	20	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
4	Welder	Work		W	Steel	30	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
5	SI	Work		S	Owner	1	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
6	PE	Work		Р	Yard	1	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
7	CS	Work		С	Class	1	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
8	CI	Work		С	Inspector	1	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
9	Cleaner	Work		С	Coating	20	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
10	WJ 300	Work		W	Coating	6	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
11	Painter	Work		Р	Coating	15	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
12	Scaffolder	Work		S	Coating	25	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
13	Safety	Work		S	Yard	4	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
14	Dehumidifier 110 KW	Work		D	Coating	7	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
15	Grid Blaster	Work		G	Coating	16	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
16	Compressor 160 KW	Work		С	Coating	4	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	
17	Vacuum Cleaner 75 KW	Work		V	Coating	3	\$0.00/hr	\$0.00/hr	\$0.00 24 Hours	