



1. BEST WIDE'S REFERENCE LIST FOR NEW PLANTS AND PLANT UPGRADES

DATE: NOV 2023

NO	DESCRIPTION	CLIENT/END USER	SCOPE	YEAR
1	HYDROGEN TRANSFER BETWEEN CHLOR ALKALI PLANTS	CCM CHEMICALS	EPCC	1996
2	FEED BOOSTER PUMP RELOCATION	CABOT	EPCC	1996
3	LPG RETICULATION SYSTEM	CREST / MEC	DETAIL DESIGN	1996
4	LRCCU AUTHORITIES APPROVALS	JGC / SHELL	AUTH. APP.	1997
5	EMERGENCY POWER SYSTEM UPGRADE	CABOT	EPCC	1997
6	CARBON PELLET Z-CONVEYOR / DUST FILTER SYSTEMS	CABOT	EPCC	1997
7	LPG, DIESEL, WASTE, CCTV, TELECOMS AND F & G SYSTEMS	MNI	DETAIL DESIGN	1997
8	OFFSHORE PIPELINES PRES. / TEMP. PROFILE ANALYSIS	OGI SINGAPORE	PROCESS STUDY	1997
9	FINISHED PRODUCT WAREHOUSE	MNI	DETAIL DESIGN	1997
10	TEMPORARY JETTY AND ROAD FORTIFICATION	JGC / SHELL	DETAIL DESIGN	1997
11	INTERCONNECTING OFFSITE PIPING AND FW / TW PUMPS	MNI	EPCC	1998
12	PIPERACKS AND PIPE BRIDGES DESIGN	WING HUP / BASF	DETAIL DESIGN	1998
13	EFFLUENT DISCHARGE LINE FROM REFINERY	SHELL	EPCM	1998
14	FEED IMPORT LINE JUMPOVER	CABOT	EPCC	1998
15	LSWR / LPG PIPELINE REROUTING	KQKS / SHELL	DETAIL DESIGN	1998
16	TEMPORARY FW SYSTEM	MNI	EPCC	1998
17	LUBE OIL BLENDING PLANT	KQKS / SHELL	DETAIL DESIGN	1998
18	RAW WATER STORAGE TANK	WING HUP / BASF	DETAIL DESIGN	1999
19	OFFSHORE PIPELINE AND PIGGING FACILITIES	CABOT	EPCM	1999
20	JET MIXER FOR REFINERY CRUDE TANK	PETRONAS	DETAIL DESIGN	1999
21	FW SYSTEM AND SPRINKLER SYSTEM UPGRADE	CABOT	EPCC	1999
22	SLOPS SYSTEM UPGRADE	WING HUP / TITAN	DETAIL DESIGN	1999
23	FIRE ALARM PANEL SUPPLY	BCOT	EPC	1999
24	COMPRESSOR FOUNDATION DESIGN	SHELL	DETAIL DESIGN	1999
25	RELOCATION OF HDPE COMPOUNDING PLANT	WING HUP / TITAN	EPCC	2000
26	PROCESS UPGRADE OF ELASTOMER PILOT PLANT	CABOT	EPCC	2000
27	KERTIH CENTRALISED TANKAGE FACILITIES, PHASE 2	DIALOG/KERTIH TERMINALS	DETAIL DESIGN	2000
28	LPG VESSELS DELUGE SYSTEM	AMB / PETRONAS	EPC	2000
29	COOLING TOWER MODIFICATIONS	MNI	EPCC	2000
30	COLD BOX STRUCTURAL REVIEW	LINDE / BASF	DETAIL DESIGN	2000
31	HEXANE HANDLING SYSTEM	WING HUP / TITAN	DETAIL DESIGN	2000
32	UNICHAMP MFO FACILITIES	SHELL / UNICHAMP	DETAIL DESIGN	2001



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33	ESTEROL PLANT UPGRADE	ESTEROL / ICI	EPCM	2001
34	KCTF HEAT TRACING AND INSULATION	DIALOG/KERTIH TERMINALS	EPCC	2001
35	FRP PIPING FOR DEMULSIFIER SYSTEM	EMEPMI	EPCC	2001
36	CONCEPTUAL DESIGN AND MTO FOR TURKISH GAS PLANT	OIL-LINE / GNPOC, SUDAN	CONCEPTUAL	2001
37	BINTANG PIPELINE TRANSIENT STUDY	TECHNIP / EMEPMI	STUDY	2001
38	METHANOL PUMPS TROUBLE-SHOOTING	KERTIH TERMINALS	STUDY	2001
39	DESIGN, PROCUREMENT AND CONSTRUCTION SUPPORT FOR SE-A AND ANGSI-A HTI	PETRA / EMEPMI	DETAIL DESIGN	2001
40	REFINERY PIPE STRESSING	SHELL	DETAIL DESIGN	2001
41	HEAT TRACING FOR OPTIMAL PIPING	BARTEC / OPTIMAL	PCC	2001
42	CO2 SYSTEM FOR SWITCHGEAR ROOMS	EMB	EPCC	2001
43	LCB-2 PARAXYLENE FACILITIES RELOCATION	ALGOTECH / BASF	DETAIL DESIGN	2002
44	DBM FOR GUD-PAA PIPELINE HTI	PETRA / EMEPMI	CONCEPTUAL	2002
45	DBM FOR TAF FWS HTI TAA AND TAB	PETRA / EMEPMI	CONCEPTUAL	2002
46	BR-A LIVING QUARTERS	KVAERNER / LUNDIN	DETAIL DESIGN	2002
47	DESIGN, PROCUREMENT AND CONSTRUCTION SUPPORT FOR IB-A EXPANSION AND BI-A HTI	PETRA / EMEPMI	DETAIL DESIGN	2002
48	SHELL SIBU U-92 TANK	WING HUP / SHELL	DETAIL DESIGN	2002
49	LCB-3 TOPSIDE FACILITIES	TOYO / BASF	DETAIL DESIGN	2003
50	O-XYLENE STORAGE TANK FACILITIES	ALGOTECH / BASF	DETAIL DESIGN	2003
51	WPPA HP/LP/TEST SEPARATORS (INSTRUMENTS & VALVES)	AMB / MURPHY	DETAIL DESIGN	2003
52	PDH HAZOP AND PROCESS CALCULATIONS	TOYO / MTBE	DETAIL DESIGN	2003
53	PD INSTALLATION TERMINAL AUTOMATION UPGRADE	SHELL	DETAIL DESIGN	2003
54	TANJUNG GELANG STANDBY GENERATOR / NEW TANK	SHELL	DETAIL DESIGN	2002
55	BITUMEN FILLING AUTOMATION, SANDAKAN & KK	SHELL	DETAIL DESIGN	2003
56	NORTH RUMAILAH C3 COOLING	RANHILL/SOUTHERN GAS,	DETAIL DESIGN	2003
57	FSF-3A EARLY WELL TIE-IN, SUDAN	NF ENERGY/GNPOC, SUDAN	EPCC	2003
58	CRUDE OIL RECOVERY SYSTEM, SUDAN	NF ENERGY/GNPOC, SUDAN	DETAIL DESIGN	2003
59	WASTE OIL TO DIESEL PLANT	HEXAGON / ALDWICH	EPCC	2004
60	DAMPER COMPOUNDING PLANT	HIROTAKO	EPMC	2005
61	BTX SEPARATION FACILITIES	ALDWICH	CONCEPTUAL	2004
62	LABUAN AVIATION FUEL FACILITIES UPGRADE	SHELL	DETAIL DESIGN	2004



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63	BINTULU BITUMEN TANK ADDITION	SHELL	DETAIL DESIGN	2004
64	C8 INJECTION FACILITIES	WING HUP / TITAN	EPCC	2004



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65	CKP INSTALLATION OF SATELLITE AND HG ANALYSER	NACAP / CARIGALI HESS	EPCC	2005
66	MODIFICATION TO CV'S FOR BR-D	SOLAR / TALISMAN	DETAIL DESIGN	2005
67	THAR JATH CPF	KHL / WNPOC	EPCC	2006
68	FW AND DELUGE SYSTEM UPGRADE	WING HUP / TITAN	EPCC	2006
69	KVDT EXPANSION	PS PIPELINE	DETAIL DESIGN	2006
70	WHCC CRUDE HEATING	WNPOC	CONCEPTUAL STUDY	2006
71	MLTTB CO ₂ , H ₂ S & HG REMOVAL STUDIES	RNZ / PETRONAS	CONCEPTUAL STUDY	2007
72	LUMUT BIODIESEL PLANT	KHL / SINARMAS	DETAIL DESIGN	2007
73	WODIP PLANT UPGRADE	ALDWICH	DETAIL DESIGN	2007
74	LUBE OIL PLANT STRUCTURAL DESIGN	SHELL	DETAIL DESIGN	2007
75	VALUE ENGINEERING FOR RESALAT COMPLEX	OIL CORP	CONCEPTUAL STUDY	2008
76	FIELD WIDE CHEMICAL INJECTION SYSTEMS UPGRADES	INTRALINE / EXXONMOBIL	CONCEPTUAL STUDY	2008
77	LGAST HOT OIL SYSTEM	PETRONAS METHANOL	EPCC	2008
78	CKP / CKR BROWNFIELD UPGRADE	CARIGALI HESS	PCC	2008
79	FIELDWIDE FINE WATER MIST AUTOMATION	INTRALINE / EXXONMOBIL	CONCEPTUAL STUDY	2008
80	LEAN AMINE TANK DETAILED DESIGN	IKATAN INNOVASI	DETAIL DESIGN	2009
81	LAWIT FIELD DECK EXTENSION	EXXONMOBIL	DETAIL DESIGN	2009
82	LIPID PLANT CONCEPTUAL / DETAILED DESIGN	IOI	EPCM	2009
83	ASIAFLEX PLANT M&E WORKS	TECHNIP / SIMODA	PCC	2010
84	QUICK RELEASE HOOK FOR FPSO	BUMI ARMADA	EPC	2011
85	MARA TRAINING PLANT (BINTULU)	SESB / MARA	DETAIL DESIGN	2014
86	HA MBD OIL CATCHER PACKAGES-PHASE 2	TECHNIP / MBD	EPCC	2016
87	WESTPORT TERMINAL REFURBISHMENT & RECOMMISSIONING	WEBS OIL HUB	EPCM	2016
88	MARA TRAINING PLANT (KEMAMAN)	SESB / MARA	DETAIL DESIGN	2017
89	HA MBD OIL CATCHER PACKAGES - PHASE 3	SMBD	EPCC	2016
90	APH TERMINAL REDEVELOPMENT	SMART CREST	PMT	ON HOLD
91	WEBS PHASE 3 - ADDITIONAL TANKS	WEST PORT BUNKERING	EPCM	ON HOLD
92	P1, P2 INSTRUMENT AIR PIPING MODIFICATION WORKS	MUESB / PCMSB	DETAIL DESIGN	2018
93	FEED & EPC SERICES FOR PUMP PERFORMANCE TEST FACILITY AT KEMAMAN	SANGGUL EMAS	EPC	2020
94	WEBS TANK FARM EXTENSION (4+2 TANKS)	WPBS	DETAIL DESIGN	2020
95	KLB TANK TERMINAL CONCEPTUAL STUDY	KL BUNKERING	CONCEPTUAL STUDY	2022



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96	KLB TANK TERMINAL PMS & FEED SERVICE	KL BUNKERING	PMS & FEED	2022
97	PORT RECEPTION FACILITY (PRF)	PKPRF	EPCC	ONGOING



2. BEST WIDE'S REFERENCE LIST FOR SKIDDED PACKAGES (DESIGN AND/OR SUPPLY)

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NO	PROJECTS	SCOPE	EST WT	CLIENT/END USER	YEAR
1	KNDP-A (KINABALU) FUEL GAS SKID	EPC	8T	OIL LINE / SABAH SHELL	1997
2	MOBILE OILY SLUDGE TREATMENT UNIT	EPC	10T	BOI	1997
3	MAJT-A / ADJT-A CI INJECTION SKIDS (2 NO'S)	EPC	8T	SANGGUL EMAS / PETRONAS	1998
4	ADJT-A CLOSED DRAIN AND SUMP PUMPS SKIDS (2 NO'S)	EPC	16T	SANGGUL EMAS / PETRONAS	1998
5	STJT-A CORROSION / WAX INHIBITOR INJ. SKID (2 NO'S)	EPC	8T	SANGGUL EMAS / PETRONAS	1998
6	STJT-A CAISSON HEATER PACKAGE	EPC	3T	PROMET / PETRONAS	1998
7	RESAK GAS AND CONDESATE METERING SKID	EPC	30T	MECOMB/PETRONAS	1998
8	LRCCU ODORANT INJECTION SKID	DESIGN ONLY	-	SANGGUL EMAS / SHELL	1999
9	RESAK - A CENTRIFUGE SKID	EPC	8T	ALFA LAVAL / PETRONAS	1999
10	SJK-A FUEL GAS SKID	EPC	15T	KVAERNER / SHELL	1999
11	DAF AND CHEMICAL DOSING SYSTEM	EPC	20T	CABOT	1999
12	ACETIC ACID SCRUBBING SYSTEM	EPC	12T	DIALOG / KERTIH TERMINALS	2000
13	VCM SPHERE VAPOR HEADSPACE CONTROL SYSTEM	EPC	20T	DIALOG / KERTIH TERMINALS	2000
14	KERTIH CUF METERING CONTROL HOUSES (9 NO'S)	EPC	30T	OAKWELL / FOSTER WHEELER	2000
15	LAWIT-A PH NEUTRALISER INJECTION SKID	EPC	3T	EMEPMI	2000
16	ANGSI-A CENTRIFUGE SKID	EPC	8T	ALFA LAVAL / PETRONAS	2000
17	ANGSI/LARUT CRUDE & GAS CUSTODY TRANSFER METERING SKID	EPC	40T	MECOMB/EMEPMI	2000
18	ANGSI-B AIR COMPRESSOR / DRYER SKID (2 NO'S)	EPC	10T	PETRA / PETRONAS	2001
19	CTOC INSTRUMENT GAS DEHYDRATION SKIDS (2 NO'S)	EPC	20T	TECHNIP / CTOC	2001
20	LARUT-A CENTRIFUGE SKID	EPC	8T	ALFA LAVAL / EMEPMI	2001
21	VCM EVACUATION SKID	EPC	10T	KERTIH TERMINALS	2001
22	F - 23 METHANOL INJECTION SKID	EPC	6T	SANGGUL EMAS / SHELL	2001
23	HELANG METHANOL AND CI INJECTION SKIDS (2 NO'S)	EPC	30T	SANGGUL EMAS / NIPPON OIL	2002
24	SMK - A (SAMARANG KECIL) IG AND HEATER SKIDS	EPC	6T	MSE / PETRONAS	2002
25	SMK - A (SAMARANG KECIL) CHEMICAL INJECTION SKID	EPC	5T	RANHILL / PETRONAS	2002
26	IB-A(IRONG BARAT) FUEL GAS AND SEAL GAS SKIDS	EPC	16T	PETRA / EMEPMI	2002
27	BS-A(BUNGA SEROJA) CHEMICAL INJECTION SKIDS	EPC	8T	MSE/TALISMAN	2002
28	M-1 GAS AND CONDENSATE METERING SKID	DESIGN ONLY	-	PETRA / SHELL	2002
29	ACETIC ACID SCRUBBING SYSTEM	EPC	10T	BP ACETYL	2002
30	EXPORT GAS METERING SYSTEM FOR BUNGA RAYA PLATFORM PH.2&3	EPC	35T	INSTROMET/TALISMAN	2002
31	BRA FUEL GAS / SEAL GAS SKID FOR SOLAR	EPC	25T	PETRA / TALISMAN	2003
32	ANDP-C & E CI SKIDS (2 No's)	EPC	8T	SSE / PETRONAS	2003
33	KINDP-A CI / METHANOL INJECTION SKIDS (2 No's)	EPC	12T	RAMUNIA / PETRONAS	2003
34	KINDP-A AND EW-A AIR COMPRESSOR / DRYER SKID	EPC	20T	PETRA / PETRONAS	2003
35	KINDP-A CI / METHANOL INJECTION SKIDS	EPC	16T	RAMUNIA / PETRONAS	2003
36	ANDP-C & E CI SKIDS	EPC	12T	SSE / PETRONAS	2003
37	ERB WEST CI SKID	EPC	4T	RAMUNIA / PETRONAS	2003



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38	ERB WEST AIR COMPRESSOR SKID	EPC	10T	PETRA / PETRONAS	2003
39	ERB WEST SEAL GAS SKID	EPC	6T	RAMUNIA / PETRONAS	2003
40	TAC AIR COMPRESSOR SKID	EPC	15T	PETRA / EMEPMI	2003
41	TRAINING SKIDS (9 NO'S) FOR PETRONAS UNIVERSITY	DESIGN ONLY	-	SOLUTION ENGINEERING	2003
42	F23 AND E11 AIR COMPRESSOR SKIDS	EPC	30T	PETRA / SHELL	2004
43	WEST NATUNA FUEL GAS SKID	EPC	20T	AMB / PETRONAS	2004
44	JAMBI FUEL GAS SKID	EPC (E&I)	6T	FRASER / GULF	2004
45	E11 CHEMICAL INJECTION SKID	EPC	10T	SARAWAK SHELL	2004
46	WEST NATUNA AIR COMPRESSOR SKID	EPC	12T	PETRA / PETRONAS	2004
47	AIR DRYER SKIDS FOR SF, BT AND SJ	EPC	15T	PETRA / SHELL	2004
48	GUE GAS/LIQUID METERING SKID	EPC	100T	EXXONMOBIL	2004
49	WEST NATUNA GAS COMPRESSION MODULE	EPC	1100T	PETRONAS	2004
50	SERAI GAS/CONDENSATE METERING SKIDS	EPC	80T	SARAWAK SHELL	2004
51	WEST PATRICIA-B MULTIPHASE METERING SKID	PCC	30T	MURPHY OIL, MALAYSIA	2004
52	E11 DESANDER HYDROCYCLONE	EPC	15T	SHELL	2005
53	5 NO'S METERING SKIDS FOR PASIR GUDANG DEPOT	EPC	40T	RAHARTA / PDB	2005
54	3 NO'S DEOILING HYDROCYCLONE SKIDS FOR KNDP-A	EPC	40T	SHELL	2005
55	7 NO'S 1ST STAGE SEPARATOR SKID FOR PALOUGE	EPC	210T	HL / RANHILL	2005
56	YETAGUN AIR COMPRESSOR SKID	EPC	12T	PETRA / RANHILL	2005
57	AIR COMPRESSOR SKIDS FOR BAJT-M AND BAKP-B	EPC	20T	PETRA / PETRONAS	2005
58	O2 INJECTION SKIDS	EPC	5T	STEELCON / AMSTEEL	2005
59	BRA CO ₂ REMOVAL MODULES	PCC	400T	TALISMAN	2005
60	BARAM COMPRESSION MODULE	PCC	1200T	KAWASAKI/PETRONAS	2006
61	4 NO'S CI SKIDS FOR THAR JATH	EPC	60T	WNPOC	2006
62	4 NO'S ELECTROSTATIC DEHYDRATOR SKIDS FOR THAR JATH	EPC	600T	WNPOC	2006
63	3 NO'S CRUDE OIL SEPARATORS SKIDS FOR THAR JATH	EPC	300T	WNPOC	2006
64	1 NO FLARE KO DRUM SKID FOR THAR JATH	EPC	50T	WNPOC	2006
65	1 NO HOT OIL SKID FOR THAR JATH	EPC	400T	WNPOC	2006
66	1 NO AIR COMPRESSOR SKID FOR THAR JATH	EPC	20T	WNPOC	2006
67	E8 FUEL GAS SKID	EPC	7T	RAMUNIA / SHELL	2006
68	LEDANG UTILITY GAS SKID	EPC	5T	MMHE / PETRONAS	2006
69	TCOT DESANDER HYDROCYCLONE SKID	EPC	12T	EXXONMOBIL	2006
70	F13E DESANDER HYDROCYCLONE SKID (3 NO'S)	EPC	36T	SARAWAK SHELL	2006
71	BTA GAS DRYER SKID	EPC	6T	PETRA / TALISMAN	2006
72	ABU FUEL GAS SKID	EPC	10T	RAMUNIA / PETRONAS	2006
73	ABU AIR COMPRESSOR SKID	EPC	12T	PETRA / PETRONAS	2006
74	CAKERAWALA CO ₂ /DEHYDRATION MODULES (5 NO'S)	PCC	2500T	CARIGALI HESS	2006



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75	SCDR-A DESANDER HYDROCYCLONE SKIDS (5 NO'S)	EPC	75T	SARAWAK SHELL	2007
76	BMA/SYA/BLA INST GAS SKIDS (3 NO'S)	EPC	36T	CARIGALI HESS	2007
77	BZ-34-1 DEOILER SKID	EPC	10T	KREBS/SNOOC	2007
78	CAKERAWALA COMPRESSION MODULE	PCC	1400T	CARIGALI HESS	2007
79	BOC INSTRUMENT GAS SKID	EPC	8T	PTSC / TALISMAN	2007
80	MDA/C/D INST / UTILITY SKIDS (3 NO'S)	EPC	27T	OIL CORP / CPOC	2008
81	LGAST HOT OIL SKIDS (3 NO'S)	EPC	480T	PETRONAS METHANOL	2008
82	KG D6 SUBSEA MANIFOLDS	PCC	500T	AKER / RELIANCE	2008
83	AZURITE FDPSO CRUDE STABILISATION MODULE	PCC	1100T	PROSAFE / MURPHY	2008
84	AZURITE FDPSO INLET SEPARATOR MODULE	PCC	1200T	PROSAFE / MURPHY	2008
85	AZURITE FDPSO RELIEF HANDLING & FLARE MODULE	PCC	300T	PROSAFE / MURPHY	2008
86	AZURITE FDPSO WATER INJECTION MODULE	PCC	200T	PROSAFE / MURPHY	2008
87	AZURITE FDPSO METHANOL INJECTION MODULE	PCC	150T	PROSAFE / MURPHY	2008
88	AZURITE FDPSO CHEMICAL INJECTION MODULE	PCC	250T	PROSAFE / MURPHY	2008
89	AZURITE FDPSO E-HOUSE MODULE	PCC	350T	PROSAFE / MURPHY	2008
90	AZURITE FDPSO TURBO ALTERNATOR MODULE	PCC	300T	PROSAFE / MURPHY	2008
91	AZURITE FDPSO PROCESS PIPE RACKS (11 NO'S)	PCC	1500T	PROSAFE / MURPHY	2008
92	DULANG B COMPRESSOR MODULE	PCC	1000T	PETRONAS CARIGALI	2009
93	F23 FUEL GAS SKIDS (2 NO'S)	EPC	40T	ROLLS ROYCE / SHELL	2009
94	OYO FPSO CRUDE STABILISER UNIT MODULE & PIPERACKS	EPC	1100T	BUMI ARMADA	2009
95	OYO OPEN DRAIN TANK SKID	EPC	15T	BUMI ARMADA	2009
96	OYO CHEMICAL TRANSFER PUMP SKID	EPC	6T	BUMI ARMADA	2009
97	BETTY CI SKID	EPC	6T	PETRONAS	2009
98	JEA AIR COMP SKIDS (2 NO'S)	EPC	10T	PETRA / EMEMPMI	2009
99	F23 AIR COMP / DRYER SKIDS (5 NO'S)	EPC	25T	PETRA / SHELL	2009
100	TANGGA BARAT GAS DRYER SKIDS (2 NO'S)	EPC	10T	PETRA / CARIGALI	2009
101	SEPA CI SKID	EPC	3T	MURPHY	2009
102	PL-347 CI SKID	EPC	6T	CARIGALI	2010
103	CILI PADI AIR COMP SKID	EPC	8T	PETRA / SHELL	2010
104	GUMUSUT KAKAP PRESSURISED H2O SYSTEMS (5 NO'S)	EPC	100T	MMHE/PETRONAS	2010
105	CKP DESANDER SKID	EPC	20T	CARIGALI HESS	2010
106	KUMANG CI/METHANOL SKIDS (5 NO'S)	EPC	25T	SIME ENGG / PETRONAS	2010
107	M1 AIR COMPRESSOR SKID	EPC	6T	PETRA / CARIGALI	2010
108	TGT DIESEL PUMP / FILTER SKID	EPC	4T	PTSC VIETNAM	2010
109	KNPG PRODUCED WATER SKID	EPC	15T	MMHE / CARIGALI	2011
110	TGT WATER INJECTION SKIDS (5 NO'S)	EPC	90T	BUMI ARMADA	2011
111	SURIYA-B INSTRUMENT GAS SKID	EPC	8T	CARIGALI HESS	2011



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112	EAST PIATU GLYCOL DEHY SKID	EPC	70T	NEWFIELD	2011
113	EAST PIATU PRODUCED WATER SKID	EPC	20T	NEWFIELD	2011
114	SEPAT MOPU TOPSIDE PROCEESS MODULES (9 NO'S)	EPC	300T	PETROFAC	2012
115	PUTERI FUEL GAS SKID	EPC	10T	NEWFIELD	2012
116	SOUTH FURIOUS AIR COMP SKID (2 NO'S)	EPC	8T	PETRA / SSB	2012
117	CD-B & C INST GAS SKID (2 NO'S)	EPC	12T	KHL / PETROFAC	2012
118	GEMUSUT-KAKAP BLACK START COMP SKID	EPC	5T	PETRA / SSB	2012
119	CKD / BMB INST GAS SKID (2 NO'S)	EPC	20T	TNS / CHESS	2012
120	AM-9 N2 FUEL GAS SKID (2 NO'S)	EPC	23T	KHL / BSP	2013
121	AM-9 N2 GENERATOR SKID (2 NO'S)	EPC	1.2T	KHL / BSP	2013
122	CD- & C CI SKID (3 NO'S)	EPC	1T	KHL / BSP	2013
123	CD-B & C MICRO WATER TURBINE GENERATOR	EPC	10T	KHL / PETROFAC	2013
124	F14, D12 & LAILA FUEL GAS SKIDS (7 NO'S)	EPC	50T	SARAWAK SHELL	2013
125	BLB INSTRUMENT GAS SKID	EPC	8T	CUEL LIMITED	2013
126	BAP-AA AIR COMP/ DRYER SKID	EPC	10T	KPW	2013
127	OSPNEY SUMP PUMP SKIDS (2 NO'S)	EPC	2T	BSP	2013
128	BMD INSTRUMENT GAS SKID	EPC	12T	TNS / CHESS	2013
129	SOUTH ACIS COMPRESSOR	EPC	2T	PETRA / MURPHY	2013
130	B23 WATERFLOOD DRAIN PUMP SKID	EPC	1.4T	BSP	2014
131	AMPCA-9 DRAIN PUMP SKID (2 NO'S)	EPC	7T	BSP	2014
132	PERMAS PRODUCED WATER PACKAGE	EPC	13T	MURPHY/THHE	2014
133	BLC INSTRUMENT GAS SKID	EPC	10T	TNS / CHESS	2014
134	SK316 FUEL GAS SKID	EPC	36T	TMJV	2014
135	MARA TRAINING PLANT - EQUIPMENT PACKAGE (5 NO'S)	EPC	7T	SESB / MARA	2015
136	GUMUSUT KAKAP METERING PUMP (SPARE UNIT)	EPC	1.5T	MMHE / SSPC	2015
137	MARA TRAINING PLANT - WELLHEAD CHRISTMAS TREE (1 NOS)	EPC	1T	SESB / MARA	2015
138	SOUTH FURIOUS FUEL GAS FILTERS PACKAGE	EPC	2.8T	SSPC	2015
139	TKP-A / WLDP-C NITROGEN CYLINDER RACK	EPC	1T	CASA ARMADA/PCSB	2015
140	TAPIS-B EOR BROWNFIELD CI SKID	EPC	2T	KHL / EMEPMI	2016
141	LAYANG FUEL GAS CONDITIONING UNIT	EPC	5T	KHL / JX NIPPON	2016
142	FSO BENCHAMAS 2 CI SKID	EPC	5T	MOFT	2017
143	TAPIS TOTE TANK	EPC	2T	SKHL / EMEPMI	2017
144	BOKOR SAND HANDLING PACKAGE	EPC	8T	MMHE / PCSB	2019
145	GOREK, LARAK AND BAKONG PRODUCED WATER HYDROCYCLONE SKID	EPC	5T	SARAWAK SHELL	2019
146	GOPA & GOPA PORTABLE SURFACTANT & O2 INJECTION SKID	EPC	1T	DAYANG / MURPHY	2018
147	ZETUNG CORROSION INHIBITOR SKID PACKAGE	EPC	4T	SAPURA ENERGY / HESS	2018
148	ZETUNG FUEL GAS INLET COOLER PACKAGE	EPC	1T	SAPURA ENERGY / HESS	2018



2. BEST WIDE'S REFERENCE LIST FOR SKIDDED PACKAGES (DESIGN AND/OR SUPPLY)

DATE: NOV 2023

NO	PROJECTS	SCOPE	EST WT	CLIENT/END USER	YEAR
149	ZETUNG FUEL GAS HEATER PACKAGE	EPC	1T	SAPURA ENERGY / HESS	2018
150	EVURU PACKAGE FOR BOKOR BETTY	EPC	0.5T	SAPURA PINEWELL / PCSB	2019
151	PEGAGA TEG PACKAGE (CPP)	EPC	120T	SAPURA ENERGY / MUBADALA	2020
152	SERENDAH DESANDER SYSTEM AND SAND MANAGEMENT PACKAGE	EPC	6T	MURPHY	2019
153	GOPA PORTABLE SURFACTANT & O2 INJECTION SKID	EPC	1T	DAYANG / MURPHY	2019
154	PEGAGA FILTER & COALESCER PROCESS DECK (CPP)	EPC	2T	SAPURA ENERGY / MUBADALA	2020
155	SALMAN CI SKID PACKAGE	EPC	12T	SAPURA ENERGY / BSP	2021
156	AMDP20 OIL CORROSION INHIBITOR INJECTION SKID	EPC	2T	JAHD / BSP	2020
157	BOKOR BETTY CORROSION INHIBITOR INJECTION SKID	EPC	2.5T	SAPURA ENERY / PCSB	2020
158	NFPS FUEL GAS TREATMENT PACKAGE	EPC	19T	McDERMOTT / QATARGAS	2021
159	LUBRICITY INJECTION PACKAGE	EPC	3T	HENGYUAN REFINING CO.	2021
160	KASAWARI NITROGEN GENERATION PACKAGE	EPC	5T	MMHE / PCSB	2021
161	FPSO BLOCK KG-DWN-98/2 N2 GENERATION PACKAGE	EPC	5T	SOLIN / ONGC	2022
162	NMB PHASE 3 BERGADING METHANOL INJECITON PACKAGE	EPC	9T	SAPURA ENERGY / HESS	2021
163	BAYAN GLYCOL REGENERATION PACKAGE	EPC	138T	T7 WENMAX / TANJUNG OFFSHORE	2022
164	JERUN SK408 TEG PACKAGE	EPC	130T	SAPURA OMV	2022
165	IBA PRODUCED WATER SYSTEM UPGRADE PROJECT	EPC	5.8T	RANHILL / EMEPMI	2022
166	JERUN FUEL GAS PACKAGE	EPC	50T	MMHE / SAPURA OMV	2022
167	JERUN HOT WATER PACKAGE	EPC	10T	MMHE / SAPURA OMV	2023
168	PFLNG2 MEG FILTRATION SKID	EPC	2T	PTTEP	2023
169	BAGSF-2 ELECTRIC GAS HEATER	EPC	0.5T	PETROFAC/PCSB	2023
170	LUTONG CI SKID (ENGINEERING)	ENGINEERING	-	JUSTRITE / PCSB	ONGOING
171	F22 KINETIC HYDRATE INHIBITOR INJECTION SKID	EPC	3T	OCEANMIGHT / SSB	ONGOING
172	SELASIH KINETIC HYDRATE INHIBITOR INJECTION SKID	EPC	3T	OCEANMIGHT / SSB	ONGOING
173	F22 PORTABLE MEG INJECTION SKID	EPC	2T	OCEANMIGHT / SSB	ONGOING
174	F27 PORTABLE MEG INJECTION SKID	EPC	2T	OCEANMIGHT / SSB	ONGOING
175	SELASIH PORTABLE MEG INJECTION SKID	EPC	2T	OCEANMIGHT / SSB	ONGOING
176	DEMO (10kW) HYDROGEN GENERATION SKID	EPC	10T	EPRO ADVANCE TECHNOLOGY	ONGOING
177	GANSAR GEL BREAKING SKID	EPC	5T	MEB / PCSB	ONGOING
178	GPS2 FUEL GAS CONDITIONING SKID	EPC	10T	ADININ WORKS / BERAKAS POWER COMPANY	ONGOING



3. BESTWIDE'S REFERENCE LIST FOR HEAT EXCHANGERS

DATE: NOV 2023

NO	PROJECTS	TYPE	SCOPE	CLIENT/END USER	YEAR
1	KNDP-A FUEL GAS COOLER	AIR COOLED	DESIGN & SUPPLY	SASHIP / SABAH SHELL	1997
2	SJK-A FUEL GAS SUPERHEATER	ELECTRIC	DESIGN & SUPPLY	KVAERNER / SARAWAK SHELL	1998
3	STJT-A CAISSON HEATER	ELECTRIC	DESIGN & SUPPLY	PROMET / PETRONAS	1998
4	METHANOL EXCHANGER	AIR COOLED	DESIGN & SUPPLY	DIALOG / KUANTAN TERMINALS	1999
5	VCM CRYOGENIC CONDENSER	S & T	DESIGN & SUPPLY	DIALOG / KERTIH TERMINALS	1999
6	ANGSI / LARUT EXCHANGERS	S & T	DESIGN ONLY	OIL LINE / EMEPMI & PETRONAS	2000
7	FUEL GAS HEATERS	S & T	DESIGN & SUPPLY	MUHIBBAH / ELIN ENTRUTECH	2000
8	ESTER COOLER	S & T	DESIGN ONLY	JUTASAMA	2000
9	CTOC INSTRUMENT GAS COOLERS	AIR COOLED	DESIGN & SUPPLY	TECHNIP / CARIGALI HESS	2001
10	GLYCOL CONDENSER	AIR COOLED	DESIGN ONLY	ESTEROL / ICI	2001
11	IB-A GLYCOL / GLYCOL EXCHANGERS	S & T	DESIGN ONLY	STEELCON / EMEPMI	2001
12	IB-A FUEL GAS HEATERS	ELECTRIC	DESIGN & SUPPLY	PETRA / EMEPMI	2001
13	PINDORI GAS PLANT EXCHANGERS	S & T	DESIGN ONLY	KVAERNER PROCESS SYSTEM	2001
14	METHANOL PLANT H2O REBOILER	KETTLE	DESIGN ONLY	AMB	2001
15	DONG FANG GLYCOL SKID EXCHANGERS	S & T	DESIGN ONLY	STEELCON / CNOOC	2001
16	WELLSTREAM COOLERS	S & T	DESIGN & SUPPLY	NIPPON OIL	2002
17	IB-A COMPRESSOR COOLERS	AIR COOLED	DESIGN ONLY	PETRA / EMEPMI	2002
18	SMK-A GAS-GAS EXCHANGER	S & T	DESIGN & SUPPLY	MSE / PETRONAS	2002
19	BR-A COMPRESSOR / FUEL GAS COOLERS	AIR COOLED	DESIGN ONLY	PETRA / TALISMAN	2003
20	B-11 GAS-GAS EXCHANGERS	S & T	DESIGN ONLY	STEELCON / SHELL	2003
21	MISC FPSO CRUDE EXCHANGERS	S & T	DESIGN ONLY	STEELCON / MSE	2003
22	KINDP-A GLYCOL EXCHANGERS	S & T	DESIGN ONLY	STEELCON / SARAWAK SHELL	2003
23	PALM OLEIN HEATER	S & T	DESIGN ONLY	IKATAN / LURGI	2004
24	SOUR GAS UNIT REBOILER	S & T	DESIGN ONLY	AMB / PETRONAS	2004
25	SALMAN IRAN GLYCOL EXCHANGERS	S & T / AC	DESIGN ONLY	FRASER	2004
26	GUE GLYCOL COOLER	AIR COOLED	DESIGN ONLY	KNM / EMEPMI	2004
27	LEAN MDEA COOLER	AIR COOLED	DESIGN ONLY	KNM / PFK	2004



3. BESTWIDE'S REFERENCE LIST FOR HEAT EXCHANGERS

DATE: NOV 2023

NO	PROJECTS	TYPE	SCOPE	CLIENT/END USER	YEAR
28	E11 GAS COOLERS	AIR COOLED	DESIGN ONLY	WH / SHELL	2005
29	PRODUCT COOLER	S & T	DESIGN ONLY	WH / BP ACETYL	2005
30	E11 TEG COOLER	AIR COOLED	DESIGN ONLY	FRASER / KHI	2005
31	E11 REFLUX CONDENSER	S & T	DESIGN ONLY	FRASER / SARAWAK SHELL	2005
32	11 NO'S PROCESS COOLERS FOR WODIP	AIR COOLED	DESIGN & SUPPLY	HEXAGON / ALDWICH	2005
33	7 NO'S PROCESS HX FOR WODIP	S & T	DESIGN & SUPPLY	HEXAGON / ALDWICH	2005
34	CONVERT 3 HX FROM BEU TO BES	S & T	DESIGN ONLY	WH / PFK	2005
35	CRUDE PREHEATERS AND HEATERS	S & T	DESIGN ONLY	KENCANA PETROLEUM / WNPOC	2005
36	BTA CONVECTIVE COOLER	AIR COOLED	DESIGN & SUPPLY	PETRA / TALISMAN	2006
37	BMA/BLA/SYA CONVECTIVE COOLERS	AIR COOLED	DESIGN & SUPPLY	CARIGALI HESS	2006
38	BFW COOLER	S & T	DESIGN ONLY	STEELCON / TITAN	2006
39	BOC CONVECTIVE COOLER	AIR COOLED	DESIGN & SUPPLY	PTSC / TALISMAN	2007
40	MONTARA PROCESS HT EXCHANGERS	S & T	DESIGN & SUPPLY	BAYU / TANKER PACIFIC	2008
41	LGAST HOT OIL PREHEATER	S & T	DESIGN & SUPPLY	PETRONAS METHANOL	2008
42	MONTARA TEG HEAT EXCHANGERS	S & T	DESIGN ONLY	BAYU / GPS	2008
43	JKA/MDB/MDC INST GAS COOLERS	CONVECTIVE	DESIGN & SUPPLY	OILCORP / CPOC	2008
44	F23 FUEL GAS HEATERS	ELECTRIC	DESIGN & SUPPLY	OTEC / SHELL	2009
45	MDD CONVECTIVE COOLER	AIR COOLED	DESIGN & SUPPLY	OILCORP / CPOC	2010
46	SK316 FUEL GAS HEATERS	ELECTRIC	DESIGN & SUPPLY	TMJV	2014
47	LAYANG FUEL GAS CONDITIONING UNIT	ELECTRIC	DESIGN & SUPPLY	KHL / JX NIPPON	2016
48	NORTH MALAY BASIN FUEL GAS INLET COOLER	AIR COOLED	DESIGN & SUPPLY	KHL / HESS CORP	2016
49	SEPAT CLOSED DRAIN HEATER	ELECTRIC	DESIGN & SUPPLY	MMHE / PCSB	2018



4. BESTWIDE'S REFERENCE LIST FOR PRESSURE VESSELS

DATE: NOV 2023

NO	PROJECTS	CLIENT/END USER	SCOPE	YEAR
1	LPG BULLETS	MEC CITY	DESIGN & SUPPLY	1997
2	COMPRESSED AIR RECEIVER	MNI	DESIGN ONLY	1997
3	PIPELINE SURGE PROTECTION VESSEL	MNI	DESIGN ONLY	1997
4	KNDP-A FUEL GAS SCRUBBER / FILTERS	SASHIP / SABAH SHELL	DESIGN & SUPPLY	1997
5	FEED LAUNCHERS / RECEIVERS	CABOT	DESIGN & SUPPLY	1998
6	SJK-A FUEL GAS SCRUBBERS / FILTERS	KVAERNER / SARAWAK SHELL	DESIGN & SUPPLY	1998
7	ACETIC ACID SCRUBBER	DIALOG / KERTIH TERMINALS	DESIGN & SUPPLY	1999
8	VCM SCRUBBER	DIALOG / KERTIH TERMINALS	DESIGN & SUPPLY	1999
9	RESAK FUEL GAS SCRUBBER	MSE / PETRONAS	DESIGN & SUPPLY	2000
10	KHTP FUEL GAS SCRUBBERS / FILTERS	MUHIBBAH / NORTHERN UTILITIES	DESIGN & SUPPLY	2000
11	CK-B / CK-C H2S ADSORPTION DRUMS AND INSTRUMENT GAS DRYERS / SCRUBBERS / FILTERS	TECHNIP / CARIGALI HESS	DESIGN & SUPPLY	2001
12	MFO BUFFER VESSEL WITH HEATER	SHELL REFINERY	DESIGN ONLY	2001
13	PARAXYLENE STORAGE VESSEL	ALGOTECH / BASF	DESIGN ONLY	2001
14	METHANOL STORAGE VESSEL	SANGGUL EMAS / NIPPON OIL	DESIGN & SUPPLY	2001
15	IB-A FUEL GAS SCRUBBERS / FILTERS	PETRA / EMEPMI	DESIGN ONLY	2001
16	VCM EVACUATION DRUM	KERTIH TERMINALS	DESIGN & SUPPLY	2001
17	SMK-A INST. GAS SCRUBBER / FILTERS	MSE / PETRONAS	DESIGN & SUPPLY	2002
18	LCB-3 DRAIN VESSEL	TOYO / BASF	DESIGN ONLY	2002
19	POJ STORAGE VESSEL	FLEXSYS	DESIGN / PMC	2002
20	KINDP-A / EW AIR SCRUBBERS / DRYERS	PETRA / PETRONAS	DESIGN & SUPPLY	2003
21	BR-A FUEL GAS SCRUBBERS AND FILTERS	PETRA / TALISMAN	DESIGN ONLY	2003
22	E11 AIR SCRUBBER / DRYERS	PETRA / SARAWAK SHELL	DESIGN & SUPPLY	2004
23	WEST NATUNA FG SCRUBBER / FILTERS	AMB / PETRONAS	DESIGN ONLY	2004
24	VARIOUS AIR DRYERS / RECEIVERS	PETRA / SHELL	DESIGN & SUPPLY	2001-2006
25	E8 FUEL GAS SCRUBBER / FILTERS	RAMUNIA / SHELL	DESIGN & SUPPLY	2005
26	BTA INSTRUMENT GAS DRYER	PETRA / TALISMAN	DESIGN & SUPPLY	2005
27	ABU FUEL GAS KO POT / FILTERS	RAMUNIA / NEWFIELD	DESIGN & SUPPLY	2006
28	BMA/BLA/SYA INSTRUMENT GAS FILTERS / DRYERS	CARIGALI HESS	DESIGN & SUPPLY	2006
29	BOB AND BOC INSTRUMENT GAS SCRUBBER / FILTERS	PTSC / TALISMAN	DESIGN & SUPPLY	2006
30	EAST BELUMUT AIR SCRUBBERS / FILTERS	PETRA / NEWFIELD	DESIGN & SUPPLY	2007
31	J4 FUEL GAS SCRUBBERS / FILTERS	SERBA / PETRONAS	DESIGN & SUPPLY	2007
32	CO2 REMOVAL SYSTEM (10 VESSELS)	SCOMI-NATCO	DESIGN & SUPPLY	2008
33	CPOC INST / UTILITY GAS SCRUBBERS / FILTERS	OIL CORP / CPOC	DESIGN & SUPPLY	2008



4. BESTWIDE'S REFERENCE LIST FOR PRESSURE VESSELS

DATE: NOV 2023

NO	PROJECTS	CLIENT/END USER	SCOPE	YEAR
34	LGAST HOT OIL EXPANSION VESSEL	PETRONAS METHANOL	DESIGN & SUPPLY	2008
35	MAERSK OIL QATAR PROCESS VESSELS (14 VESSELS)	SIME / MOQ	DESIGN & SUPPLY	2008
36	F23 FUEL GAS SCRUBBERS / FILTERS	OTEC / SHELL	DESIGN & SUPPLY	2009
37	F23-RA AIR RECEIVER & DRYERS	PETRA / SHELL	DESIGN & SUPPLY	2009
38	TANGGA BARAT AIR DRYERS	PETRA / CARIGALI	DESIGN & SUPPLY	2009
39	GUMUSUT/KAKAP WATER STORAGE VESSELS (4 NO'S)	MMHE / SHELL	DESIGN & SUPPLY	2011
40	CILI PADI AIR DRYERS / FILTERS	PETRA / SHELL	DESIGN & SUPPLY	2011
41	CKP HYDROCYCLONE VESSEL	CARIGALI HESS	DESIGN & SUPPLY	2011
42	M1 AIR DRYERS / FILTERS	PETRA / CARIGALI	DESIGN & SUPPLY	2011
43	TAPIS C PIG LAUNCHER	SAPURA ENERGY / EMEPMI	DESIGN & SUPPLY	2018
44	EAST CENDOR GL & WI PIG LAUNCHER	PETROFAC	DESIGN & SUPPLY	2020