

MV JM PERKASA 2

Anchor Handling Tug Supply Vessel
60 M 5,220 BHP 74 MT Bollard Pull



PRINCIPAL PARTICULARS

Length Overall	: 60 m
Length W.L	: 58.74 m
Breath Molded	: 16.00 m
Depth Molded	: 5.5 m
Draft Molded	: 4.85 m
Class	: Bureau Veritas
Flag/Port Registry	: Malaysian/Port Klang
Built	: 2011
Official No.	: 334264
IMO No.	: 9585833
Call Sign	: 9MLL3
Hull No.	: 20083
Place of Built	: Mubibbah Marine Eng.

PERFORMANCE

Performance Speed	: 13 knots
Economical Speed	: 11 knots
Endurance	: 22 days

CARGO CAPACITIES

Deck Cargo	: 600 MT
Deck Strength	: 7mt/m ²
Cargo Deck Area	: 390 m ²
Potable Water Tank	: 500 m ³
Fuel Oil Tank	: 522 m ³
Drill Water / SWB Tank	: 625.90 m ³
Foam & Detergent Tank	: 10 m ³ each
Dry Bulk Tank	: 170 m ³ /4 tanks
Liquid Mud Tank	: 177 m ³
Base Oil / Brine	: 159 m ³

DISCHARGE RATE

Fuel Oil	: 100 m ³ /Hr @ 90 m H
Portable Water Drill	: 100 m ³ /Hr @ 90 m H
Base Oil	: 100 m ³ /Hr @ 90 m H
Liquid Mud	: 2 x 90 m ³ /Hr @ 90 m H
	: 150hp x 2900rpm for S.G. 2.0
Bulk Cement	: 13.0 m ³ /min, normal working pressure 5.6 bar
Fresh Water Maker	: 5.5 m ³ /24hrs (240 lit/hr)

PROPULSION SYSTEM

Main Engines	: 2 x 2610 BHP @ 750 rpm Yanmar 6EY26
Auxiliary Engines	: Caterpillar 34060 DITA, 2 x 245 6kw x 415 x 3PH x 1500 rpm
Shaft Alternator	: Leroy Somer, 2 x LSA M50, 154 4P, 700 kW 50 Hz
Bow Thruster (Electric motor driven)	: 1 x HRP 4008 TTCP 8 mt thrust, 515 kW, 1500 rpm
Propellers	: 2 x CPP in fixed nozzle, Berg BCP 690
Gear Box	: Reintjes, LAF 2346 K41
Steering Gear	: Wagner Nufuss Steering System, WIN LA2 4.4-45-C82
Emergency Generator	: 1 x Caterpillar, 86kW, 415V 3 ph, 50 Hz @ 1500 rpm

TOWING / ANCHOR HANDLING EQUIPMENT

Bollard Pull	: Average 74 MT, Max 80 MT
Towing Winch	: Double drums waterfall type, 200 MT stall pull x 1000m x 58mm wire rope
Stern Roller	: 1.8 m dia x 4.0 m length, 200 SWL
Karm Fork	: 1 set Karmoy Ref: M330120 SWL 300 tone
Towing Pins	: SWL 160 MT
Storage Reel	: 1 x 5 tons @ C-20m/min

DECK EQUIPMENT

Capstan	: 2 x 6T @ 20 m/min
Tugger Winch	: 2 x 10T @ 15m/min
Deck Crane	: Type AT8 58/E 5 MT @ 8m outreach
Anchor Windlass	: 10T @ 0-12 m/min max duty, 45mm chain
Anchor	: 2 x HHP AC14 1590kg Anchors

ACCOMMODATIONS

Complement	: 42 men
All cabin fully air-conditioned	
Walk-in freezer space	: 10.0 m ³
Walk-in Chiller	: 12.0 m ³

RADIO & NAVIGATION EQUIPMENTS

SSB	: 1 x JRC 150W MF/HF
SSB (additional)	: 1 x Furuno PS-1503 150W SSB/HF
VHF	: 2 x JRC-7705
Radar	: JRC, JMA-5312-G, 5210-6
Echo Sounder	: JRC, JFE-380
Gyro Compass	: Yokogawa CMZ 700B M 3
GMDSS	: Area 3
Magnetic Compass	: 1 x Lilley & Gillie MK2000
Speed Log	: 1 x JRC, ILN-205
Auto Pilot	: 1 x Navitron PID, NT991G MKII
Navtex Receiver	: JRC, NCR-333
GPS Navigator	: 2 x JRC, RW2-4570
Joystick	: 1 Integrated Joystick Control
EPIRB	: 1 set JME MT403FF
AIS	: 1 x JRC, IHS-182
Fleet Broadband	: 1 set Thrane & Thrane F88 250

LIFE SAVING & H.S.E. EQUIPMENTS

Search Lights	: 2 x 2000W halogen
Floodlights	: 6 x 1000W halogen, 2 x 500W halogen
Life Jackets	: 42 + 6 men
Liferaths	: 4 x 25 men & 2 x 15 men
Lifebuoys	: 3 pcs SOLAS approved
Firemen Suits	: As per SOLAS requirement
Immersion Suits	: As per SOLAS requirement
Scrambling Net	: 2 pcs
Rescue Boat	: semi-rigid "Narwhal" 6 person @ c/w 30 hp outboard motor
Slewing Devil	: As per SOLAS requirement

AUXILIARY MACHINERIES

G.S and Bre pump	: 1 x 60 m ³ hr @ 60 mH, 18.5 kW Bombass Azcue BA WM-EM
Bilge and Ballast	: 1 x 60 m ³ hr @ 60 mH, 18.5 kW Bombass Azcue BA WM-EM
Lub Oil Purifier	: 2 x 800 l/h, Mitsubishi Kaisha, Model S11-G self-cleaning
Sewage Treatment Plant	: DVZ, 30 men, marpol compliance
Oily Water Separator	: 1.0 m ³ , marpol compliance

OTHERS

Refer points	: 4 x 22 amp 415/3/50Hz 4 x 16 amp 240V/1/50Hz
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FOR CHARTER INQUIRIES

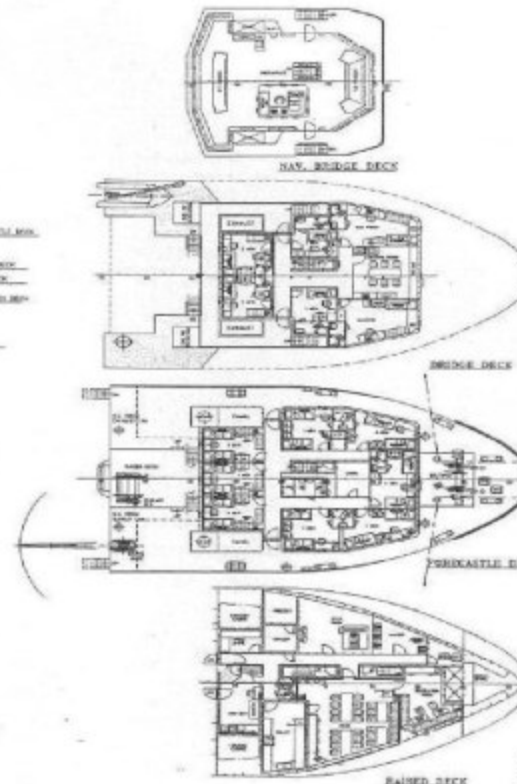
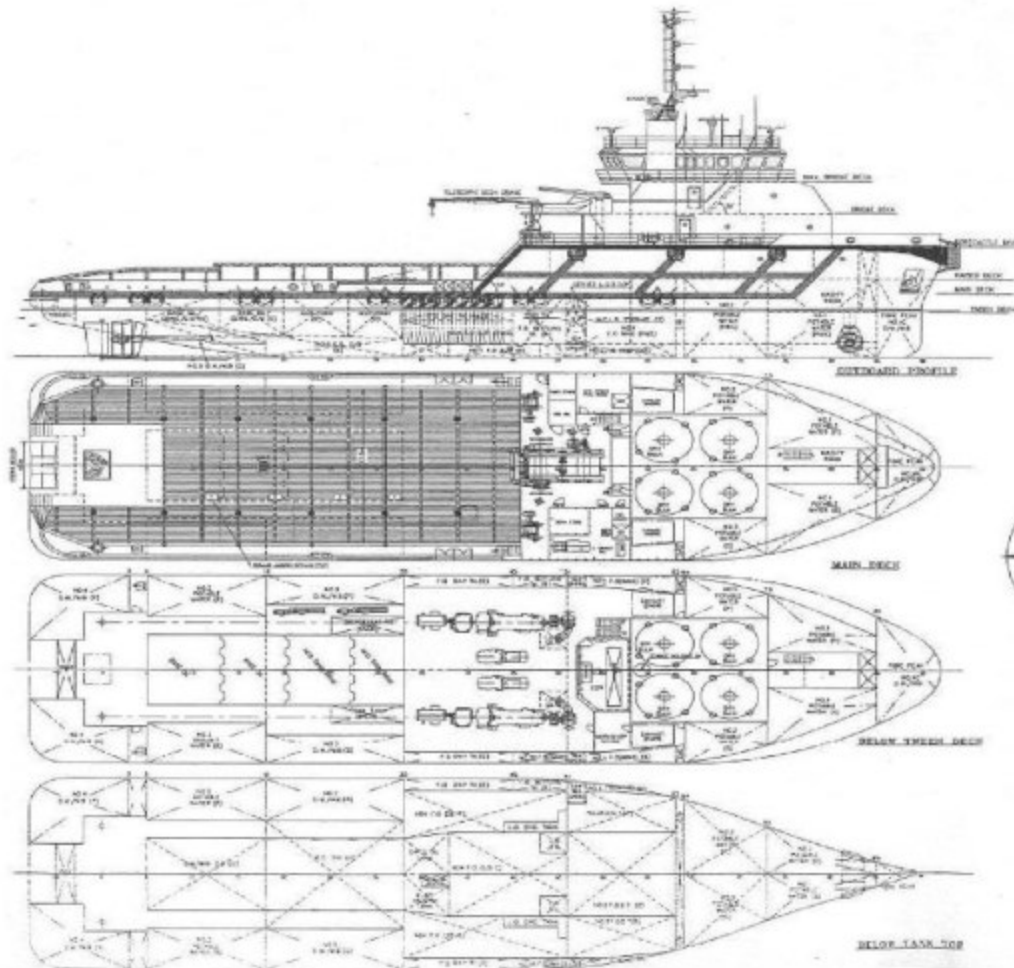
Tel : +609 8511 1100

Fax : +609 858 9258

Email : commercial@jasamerin.com.my

www.jasamerin.com.my

JM PERKASA 2 GENERAL ARRANGEMENT PLAN



GENERAL PARTICULARS

LENGTH O.A.	33.00m
LENGTH M.L.	30.74m
BEAM M.L.	10.00m
DEPTH M.L.D.	5.50m
DEPTH DESIGNED/MAX.	4.20m/7.80m
DWT	11500/15800
COMPLEMENT	
CREW	30 MEN
SPECIAL PERSONNEL	12 MEN
TOTAL	42 MEN
POTABLE WATER	
	500m ³ (Approx)
P.O.	522m ³ (Approx)
D.W./S.W.B.	550m ³ (Approx)
LOADING NUB.	175m ³
BASE OIL/GEN/OIL	150m ³
FOAM	15m ³
DISPERGENT	15m ³
DRY SUMP	172m ³
DIRTY OIL	1m ³
SLOPE HOLDING	18m ³
DECK SPACE	360m ² (Approx)
DECK CARGO	600 (Approx) (Approx)

DESIGNER	COSAN WU & ASSOCIATES
DATE	15/01/2011
SCALE	AS SHOWN
General Arrangement	
COSAN WU & ASSOCIATES	
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.	