

TECHNICAL SPECIFICATIONS



PROJECT NAME – METEOR

PROJECT NUMBER – MY13030

THIS SPECIFICATION SHEET IS GIVEN ONLY FOR INFORMATIVE PURPOSES AND IN GOOD FAITH

CONTENTS

VESSEL PARTICULARS:	4
CONSTRUCTION:	4
HULL CONSTRUCTION:	4
SUPERSTRUCTURE CONSTRUCTION:	4
TANK CONSTRUCTION:	4
TANK CAPACITIES:	4
DECK EQUIPMENT:	4
MACHINERY:	5
PROPULSION SYSTEM:	5
STEERING:	5
FUEL SYSTEM:	5
LUBE OIL SYSTEM:	5
SLUDGE SYSTEM:	5
FRESH WATER SYSTEM:	5
DIRTY WATER SYSTEM:	6
BILGE/FIRE SYSTEM:	6
RAW WATER COOLING SYSTEM:	6
SCUPPER SYSTEM:	6
DECK WASH SYSTEM:	6
FIXED FIRE FIGHTING SYSTEM:	6
HVAC SYSTEM:	6
ELECTRICAL SYSTEMS:	7
ELECTRONICS:	7
NAVIGATION/COMMUNICATION EQUIPMENT:	7
AUTOMATION, CONTROL & MONITORING SYSTEM:	8
1-1 FUEL OIL MONITORING & CONTROL:	8
1-2 FRESH WATER MONITORING & CONTROL:	8
1-3 BLACK WATER MONITORING & CONTROL;	8
1-4 GREY WATER MONITORING & CONTROL;	8
1-5 NAVIGATION/EXTERIOR LIGHTS MONITORING & CONTROL;	8
1-6 BILGE & FIRE SYSTEM MONITORING & CONTROL;	8

1-7 ENGINE ROOM PRESSURE/TEMPERATURE MONITORING;	8
1-8 ONBOARD BATTERY MONITORING;	9
1-9 AC VOLT MONITORING AND POWER MANAGEMENT;	9
1-10 ALARM STORAGE & ENGINEERING PAGE;.....	9
1-11 PORTHOLE AND WATERTIGHT DOOR MONITORING;	9
1-12 MAIN ENGINES;	9
1-13 AIR CONDITIONING CIRCULATION WATER MONITORING;.....	9
ENTERTAINMENT SYSTEMS:.....	9
INTERIORS:	10
TENDER & SPORTS EQUIPMENT:	10
PAINT SYSTEM:	10

VESSEL PARTICULARS:

VESSEL TYPE – TWIN PROPELLER DISPLACEMENT MOTOR YACHT

LAUNCH DATE – 31/03/2018

CLASS – RINA C ~~X~~ HULL • MACH Y_{CH}; UNRESTRICTED NAVIGATION, EFP,DMS
MCA COMPLIANT

SHIPYARD – MURAL YACHTS

NAVAL ARCHITECTURE – MURAL YACHTS

EXTERIOR DESIGN – MURAL YACHTS

INTERIOR DESIGN – MURAL YACHTS

LOA – 46.34M, (150.89`)

LH – 45.99, (150.89`)

LWL – 44.65M, (146.49`)

BMAX – 8.95M, (29.36`)

DRAFT – 2.75M, (9.02`)

DEPTH – 4.50M, (14.76`)

DISPLACEMENT (HALF LOAD) – 440MT

SPEED (MAX/CRUISING) – 16/12KTS

RANGE – 4800 NM @ 12KTS (APPROXIMATE)

NUMBER OF GUESTS -10

NUMBER OF CREW – 9

CONSTRUCTION:

HULL CONSTRUCTION:

SHELL – A GRADE STEEL

STRUCTURE – A GRADE STEEL

DECKS – TEAK ON TOP OF A GRADE STEEL

SUPERSTRUCTURE CONSTRUCTION:

SHELL – ALUMINIUM 5083 H111

STRUCTURE – ALUMINIUM 5083 H111

DECKS – TEAK ON TOP OF ALUMINIUM

TANK CONSTRUCTION:

FUEL OIL TANKS – A GRADE STEEL

FRESH WATER TANKS – A GRADE STEEL

GREY WATER TANKS - A GRADE STEEL COATED WITH INTERLINE

BLACK WATER TANKS - A GRADE STEEL COATED WITH INTERLINE

TANK CAPACITIES:

FUEL OIL TANKS – 56081LTR (APPROXIMATE), 7 TANKS

LUBE OIL TANK – 782LTR (APPROXIMATE) 1 TANK

SLUDGE TANK – 1024LTR (APPROXIMATE) 1 TANK

FRESH WATER TANKS – 14813LTR (APPROXIMATE) 2 TANKS

GREY WATER TANKS – 12796LTR (APPROXIMATE) 2 TANKS

BLACK WATER TANKS – 11686LTR (APPROXIMATE) 2 TANKS

DECK EQUIPMENT:

WINDLASS – 2 X DATA DZC 3300 HKR-20K, MAX CONTINUOUS PULL 3300KG

ANCHOR – 2 X 275KG HHP, POOL N ANCHOR

CHAIN – 17.5MM STUD LINK, 200M + 200M
CAPSTAN – 2 X LOFRANS T4000
BOLLARDS – 316L STAINLESS STEEL, CUSTOM MADE
FAIRLEADS – 316L STAINLESS STEEL, CUSTOM MADE
CLEATS – 316L STAINLESS STEEL, CUSTOM MADE
STANCHIONS – 316L STAINLESS STEEL
PORTLIGHTS – 16 X SCM OBLO T.S. 400MM WITH STORM SHUTTER & MICRO SWITCH
WINDSHIELD WIPERS – 7 X SPEICH HEAVY DUTY UNITS
PASSARELLA – OPACMARE TRANSFORMER 3383.6 (6 STEPS) 5 50KG CAPACITY
PANTOGRAPH DOOR – BOFOR CUSTOM
SLIDING SALON DOOR – 2 X BOFOR CHROME/GLASS AUTOMATIC DOOR WITH BRAKE

MACHINERY:

PROPULSION SYSTEM:

ENGINES – CUMMINS KTA38-M2 1200BHP @ 1800 RPM
GEARBOX – ZF W3355 (4:1) WITH TROLLING VALVE & TRAILING PUMP
GAS THROTTLE – ZF 4 STATIONS, WHEELHOUSE + 2 WING STATIONS + ENGINE ROOM
FLEXIBLE COUPLING – RUBBER DESIGN ERD 110SA
THRUST BEARING – RUBBER DESIGN TB04
PROPELLER SHAFT – AQUAMET, 120MM DIAMETER
SHAFT SEAL – ELICHE RADICE
STERN TUBE – STEEL OD 244MM
SHAFT BEARINGS – NITRILE RUBBER BEARINGS
SHAFT BRACKETS – STEEL V-BRACKET
PROPELLERS – MIBRAL FIXED PITCH 63" DIAMETER SIP MARINE
EXHAUST TYPE – WET EXHAUST WITH BYPASS SYSTEM
EXHAUST HOSES – TRIDENT OR SCAMO
SILENCERS – CENTEK GRP UNDERWATER MUFFLER & SEPERATORS FOR GENSETS

STEERING:

STEERING SYSTEM – MARSILI ELECTRO-HYDRAULIC SYSTEM
RUDDER – 2 X STEEL SEMI SPADE RUDDERS
BOW THRUSTER – TRAC 24", 125HP HYDRAULIC SYSTEM
STABILIZER – TRAC 370 ZERO SPEED 4 WINGLETS
ELECTRIC MOTOR – 15kW AC MOTOR TO DRIVE PTO WHEN ENGINE IS NOT RUNNING

FUEL SYSTEM:

FUEL TRANSFER – GIANNESCHI ACB 331/B B 230/400V 50Hz T 1,5kW
FUEL FILTER – SEPAR
PIPING/VALVE MATERIAL – 304 STAINLESS STEEL
VALVES – ELECTRONIC VALVES IN TRANSFER SYSTEM
FUEL FILTRATION – ALFA LAVAL MIB303 230V 50Hz

LUBE OIL SYSTEM:

LUBE OIL PUMP - GIANNESCHI FQ 15 230/400V, 50Hz WITH 2 INLET + 7 OUTLETS

SLUDGE SYSTEM:

TRANSFER PUMP – GIANNESCHI FQ 15 230/400V, 50Hz WITH 2 INLET + 7 OUTLETS

FRESH WATER SYSTEM:

HYDROPHORE – GIANNESCHI 2 JET 518 B EL/PUMPS C.E. 24V + 230/400V 50Hz
WATER MAKER – 2 X HRO HORIZON SEAFARI 1800-2, 284LTR/HR, 380V, 2.3kW
BOILER – 2 X GIANNESCHI BOILER 200 LT 230/400V T 3+3kW INOX
HOT WATER CIRCULATION PUMP – GIANNESCHI Z30 TOP1801-1/4" 230/400V T 50Hz
PIPING/VALVE MATERIAL – PPP-R

DIRTY WATER SYSTEM:

MAGERATOR PUMPS:

BLACK WATER – GIANNESCHI BMA-S 32/125A1 V230/400 3PH 50HZ

GREY WATER – GIANNESCHI MV180 230/400V TR. 50HZ 1.5kW

TANK WASH PUMP – GIANNESCHI ACB 331/B B 230/400V 50HZ T 1,5kW

SEWAGE TREATMENT – HAMANN HLCP 02 SLIM 5200LTR/DAY 380V, 3kW

MULTIPHASE PUMP – HAMANN 1.5kW

SLUDGE PUMP – HAMANN 0.75kW

EFFLUENT PUMP – 0.75kW

TOILETS – 11 X TECMA BREEZE, SOFT CLOSE, 230V 0.7kW

PIPING/VALVE MATERIAL – PVC GIRPI

BILGE/FIRE SYSTEM:

BILGE PUMP – GIANNESCHI ACB 631/B 400/690V 3PH 50HZ 9,2kW 1450RPM

FIRE PUMP - GIANNESCHI ACB 631/B 400/690V 3PH 50HZ 9,2kW 1450RPM

EMG. FIRE PUMP – V2XRD DIESEL PUMP 3kW

AUTOMATIC BILGE PUMPS – RULE

PIPING/VALVE MATERIAL – UNDERWATER CUNIFE, ELSEWHERE 316 STAINLESS STEEL

VALVES – ELECTRONIC VALVES IN BILGE SYSTEM

RAW WATER COOLING SYSTEM:

PIPING – CUNIFE

SCUPPER SYSTEM:

PIPING – 316L STAINLESS STEEL DN65 SCH80

DECK WASH SYSTEM:

PUMP – GIANNESCHI WPS IDRO ECOJET 2 BB 230/400V T 50HZ

WATER PRESSURE PUMP WILL SUPPLY FRESH WATER AT SEVERAL OUTLETS

FIXED FIRE FIGHTING SYSTEM:

SYSTEM TYPE – ULTRAFOG (IN ENGINE ROOM AS WELL)

HVAC SYSTEM:

BRAND – CRUISAIR

CHILLER – 6 X TWC72ECK-DDC 380V, 72000BTU/HR, TOTAL 432000BTU/HR

COOLING 9A, HEATING 11.7A

FANCOILS:

GUEST CABIN 1 – AT12HVZ, 12000BTU/HR, 0.7A

GUEST CABIN 2 – AT12HVZ, 12000BTU/HR, 0.7A

GUEST CABIN 3 – AT12HVZ, 12000BTU/HR, 0.7A

GUEST CABIN 4 – AT12HVZ, 12000BTU/HR, 0.7A

CREW MESS – AT18HVZ, 18000BTU/HR, 1A

LAUNDRY – AT12HVZ, 12000BTU/HR, 0.7A

CREW 1 – AT9HVZ, 9000BTU/HR, 0.7A

CREW 2 – AT9HVZ, 9000BTU/HR, 0.7A

CREW 3 – AT9HVZ, 9000BTU/HR, 0.7A

CREW 4 – AT9HVZ, 9000BTU/HR, 0.7A

MASTER CABIN – 3 X AT18HVZ, 54000BTU/HR, 3A

GALLEY – 2 X AT18HVZ, 18000BTU/HR, 2A

MAIN SALOON – 4 X AT24HVZ, 96000BTU/HR, 4A

WHEELHOUSE – 2 X AT18HVZ, 18000BTU/HR, 2A

UPPER SALOON – 4 X AT18HVZ, 72000BTU/HR, 3A

CAPTAINS CABIN – AT12HVZ, 12000BTU/HR, 0.7A

FRESH AIR UNIT – 2 X AT24HVZ-1.5kW + AT36HVZ-FC-1.5kW 84000BTU/HR
SEA WATER PUMP – 2 X P711380V
CIRCULATION PUMP – P715 3HP
DIGITAL CONTROLLER KIT – 23 X PLTX-HVSTAT
ER FANS – 1 X GIANNESCHI ELL/AP 805/8/35° 230/400V 3PH 50Hz 5,5kW
1450 RPM WITH 24V FIRE DAMPER AND MIST ELIMINATOR AND 1 X GIANNESCHI
ELL/AP 715/0-8/35° 230/400V 3PH 50Hz 3kW 1450 RPM WITH 24V FIRE
DAMPER AND MIST ELIMINATOR
LAZARETTE FANS – 2 X GIANNESCHI ELL 250/2 230/400V T WITH 24V FIRE
DAMPER

ELECTRICAL SYSTEMS:

ONBOARD ELECTRICITY – 380V, 230V, 24V, 12V
GENERATORS – 2 X KOHLER, 80KW @ 1500RPM 3 PHASE
NIGHT GENERATOR – 1 X KOHLER, 50KW @ 1500RPM 3 PHASE

BATTERIES:

ENGINE STARTER BATTERIES – 8 X MASTERVOLT AGM 160AH 24V
GENERATOR STARTER BATTERIES – 4 X MASTERVOLT AGM 130AH 24V
NIGHT GENERATOR STARTER BATTERIES – 2 X MASTERVOLT AGM 130AH 24V
SERVICE BATTERIES – 4 X MASTERVOLT MVB 200AH 24V
EMERGENCY BATTERIES – 4 X MASTERVOLT MVB 200AH 12V
VHF BATTERIES – 4 X MASTERVOLT MVB 200AH 12V

CHARGERS:

ENGINE STARTER – 2 X MASTERVOLT MASS 24/50A 220V
GENERATOR STARTER – 3 X MASTERVOLT MASS 24/25A 220V
SERVICE – MASTERVOLT MASS 24/75A 220V
EMERGENCY – MASTERVOLT MASS 24/75A 220V
VHF – MASTERVOLT MASS 24/50A 220V

FREQUENCY CONVERTOR – ATLAS 90 OR 90KVA SHORPOWER SPA
CATHODIC PROTECTION – CATHELCO ICCP 20A MINITEK, CURRENT DENSITY 35MA/M2
ANTIFOULING SYSTEM – CATHELCO ANTIFOULING SYSTEM

ELECTRONICS:

NAVIGATION/COMMUNICATION EQUIPMENT:

NAV STATION:

WHEELHOUSE – SIMRAD ARGUS 19" APPROVED DISPLAY
GPS – SIMRAD MX6XX
ECHOSOUNDER – SKIPPER GDS101
SPEEDLOG – SKIPPER EML224
AUTOPILOT SYSTEM – SIMRAD AP70 IMO S
INMARSAT – SAILOR 6110 MINI-C GMDSS SYSTEM
MF/HF – SAILOR 6000SERIES 150WDSC CLASS A
PRINTER FOR GMDSS – SAILOR H1252B/TT-3608A
ALARM PANEL – SAILOR 6101

VHF DSC:

WHEELHOUSE – SAILOR 6000 SERIES CLASS A
HANDHELD – 3 X SIMRAD AXIS50 GMDSS APPROVED
WEATHER STATION – AIRMAR 150WX
LOUDHAILER – SIMRAD
WATCH ALARM SYSTEM – RAYTHEON BNWAS
AIS – SIMRAD MX535 CLASS A
SART – 2 X SIMRAD SA70 SART

EPIRB – SIMRAD EG70 AUTO GPS EPIRB
RADAR 1 – SIMRAD ARGUS 12U6XP 12kW
RADAR 2 – SIMRAD BROADBAND 4G RADAR CLOSED DOME
NAVTEX – JRC NCR333
OVERHEAD MAGNETIC COMPASS – CASSEN & PLATH TYPE 21
GYRO COMPASS – SIMRADGC80 EXP
GYRO REPEATER ANALOGUE – SIMRAD HR80
GYRO REPEATER DIGITAL – SIMRAD DR76
CCTV SYSTEM – 1 X CAMERA IN ER 1 LOOKING AFT (CABLING READY FOR MORE CAMERAS)
INTERCOM SYSTEM – ZENITEL ETB-5 PACK

AUTOMATION, CONTROL & MONITORING SYSTEM:

1-1 FUEL OIL MONITORING & CONTROL:

FUEL OIL TANK LEVEL MONITORING VIA BARGRAPH AND NUMERIC DISPLAY
FUEL OIL TANK LOW LEVEL & HIGH LEVEL ALARMS, AUDIO & GRAPHIC ALARMS
ALARMS TO BE LOGGED IN THE SYSTEM
CONTROL OF FUEL OIL TRANSFER PUMP FUEL FILTRATION SYSTEM AND VALVES

1-2 FRESH WATER MONITORING & CONTROL:

FRESH WATER TANK LEVEL MONITORING VIA BARGRAPH AND NUMERIC DISPLAY
FRESH WATER TANK LOW LEVEL & HIGH LEVEL ALARMS, AUDIO & GRAPHIC ALARMS
ALARMS TO BE LOGGED IN THE SYSTEM
MONITORING OF WATER PRESSURE PUMP AND SYSTEM PRESSURE

1-3 BLACK WATER MONITORING & CONTROL;

BLACK WATER TANK LEVEL MONITORING VIA BARGRAPH AND NUMERIC DISPLAY
BLACK WATER TANK HIGH LEVEL ALARM, AUDIO & GRAPHIC ALARMS
MACERATOR PUMP TO BE STOPPED WHEN TANK LEVEL IS LOW
CONTROL OF VALVES TO DIRECT BLACK WATER OVERBOARD OR TO HAMANN SYSTEM
CONTROL OF MACERATOR PUMP
ALARMS TO BE LOGGED IN THE SYSTEM

1-4 GREY WATER MONITORING & CONTROL;

GREY WATER TANK LEVEL MONITORING VIA BARGRAPH AND NUMERIC DISPLAY
GREY WATER TANK HIGH LEVEL ALARM, AUDIO & GRAPHIC ALARMS
MACERATOR PUMP TO BE STOPPED WHEN TANK LEVEL IS LOW
CONTROL OF VALVES TO DIRECT BLACK WATER OVERBOARD OR TO HAMANN SYSTEM
CONTROL OF MACERATOR PUMP
ALARMS TO BE LOGGED IN THE SYSTEM

1-5 NAVIGATION/EXTERIOR LIGHTS MONITORING & CONTROL;

NON FUNCTIONING NAVIGATION LIGHTS TO BE SHOWN ON DISPLAY
ALARMS OF NAVIGATION LIGHTS TO BE LOGGED IN SYSTEM

1-6 BILGE & FIRE SYSTEM MONITORING & CONTROL;

CONTROL OF BILGE & FIRE PUMP
BILGE LOW LEVEL AND HIGH LEVEL ALARMS FOR ALL COMPARTMENTS
CONTROL OF ELECTRONIC VALVES
ALARMS TO BE LOGGED IN SYSTEM

1-7 ENGINE ROOM PRESSURE/TEMPERATURE MONITORING;

ENGINE ROOM PRESSURE & TEMPERATURE MONITORING

HIGH TEMPERATURE ALARM
LOW PRESSURE ALARM

1-8 ONBOARD BATTERY MONITORING;

ALL BATTERY GROUPS VOLTAGE MONITORING, HIGH & LOW LEVEL VOLTAGE ALARM
ALL BATTERY GROUPS CHARGE AMP MONITORING AND HIGH AMP ALARM
ALL BATTERY GROUPS DISCHARGE MONITORING HIGH & LOW VOLTAGE ALARM
SERVICE BATTERY LIFE AT CURRENT AH USAGE TO BE SHOWN
ALARM TO BE LOGGED IN SYSTEM

1-9 AC VOLT MONITORING AND POWER MANAGEMENT;

GEN1 ON LINE
GEN1 OFF LINE
GEN2 ON LINE
GEN2 ON LINE
GEN 3 OFF LINE
GEN 3 OFF LINE
SHORE POWER ON LINE
SHORE POWER OFF LINE

1-10 ALARM STORAGE & ENGINEERING PAGE;

ALL ALARM WARNINGS TO BE STORED FOR FUTURE RETRIEVAL

1-11 PORTHOLE AND WATERTIGHT DOOR MONITORING;

16 PORTHOLES WITH MICRO SWITCH TO BE MONITORED OPEN/CLOSED POSITION
ALL WATERTIGHT DOORS&HATCHES TO BE MONITORED OPEN/CLOSED POSITION

1-12 MAIN ENGINES;

EXHAUST PRESSURE/TEMPERATURE MONITORING BARGRAPH AND NUMERICAL DISPLAY
EXHAUST HIGH PRESSURE/TEMPERATURE ALARM
ALARMS TO BE LOGGED IN SYSTEM

1-13 AIR CONDITIONING CIRCULATION WATER MONITORING;

CIRCULATION WATER TEMPERATURE & PRESSURE MONITORING
LOW/HIGH TEMPERATURE ALARM
LOW HIGH PRESSURE ALARM
ALARM TO BE LOGGED IN SYSTEM

AUTOMATION PANELS TO BE PLACED IN WHEELHOUSE (24"), CAPTAINS CABIN (12"),
CREW MESS (12"), ENGINE ROOM ON PLC PANEL (15")

ENTERTAINMENT SYSTEMS:

SATELLITE TV ANTENNA – INTELLIAN I9W
INTERNET ANTENNA – INTELLIAN VSAT V80G
TV'S:

OWNERS CABIN – 32" (CEILING LIFT)
GUEST CABIN 1 – 32" (CEILING LIFT)
GUEST CABIN 2 – 32" (CEILING LIFT)
GUEST CABIN 3 – 32" (CEILING LIFT)
GUEST CABIN 4 – 32" (CEILING LIFT)
CREW MESS – 32" (FIXED)
UPPER SALOON – 75" (FIXED)
SUN DECK – 65" (CEILING LIFT)

DECODERS – 10 X NEXT HD SATELLITE RECEIVER

INTERIORS:

FLOORS – TEAK PARQUE, COVERED IN TEAK OIL & CARPET

CEILINGS – WHITE LACQUER

WALLS – VENEER VARNISH, LACQUER AND FABRIC

FURNITURE – VENEER & LACQUER

TRIM – TEAK

BATHROOM COUNTERS – NEOLITH

BATHROOM SHOWERS – NEOLITH

LIGHTING – BCM LED LIGHTING 230V

FRIDGE – 2 X SUB ZERO

DEEP FREEZE – 2 X LIEBHERR

MICROWAVE – WOLF

OVEN – 1 X WOLF + 1 X RATIONAL

STOVE – 2 X WOLF

ASPIRATOR – CUSTOM

DISHWASHER – 2 X MIELE

WASHING MACHINE – 2 X MIELE

DRYER – 2 X MIELE

TENDER & SPORTS EQUIPMENT:

TENDER – 1 X 5.2M NORTHSTAR 90HP OUTBOARD

SUN DECK CRANE – SANGUINETI 1500KG CAPACITY

PAINT SYSTEM:

HULL – INTERNATIONAL PERFECTION SYSTEM

SUPERSTRUCTURE – INTERNATIONAL PERFECTION SYSTEM

ANTI FOULING – INTERNATIONAL MICRON 77