

# TECHNICAL SPECIFICATIONS



PROJECT NAME – METEOR

PROJECT NUMBER – MY13030

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## VESSEL PARTICULARS:

VESSEL TYPE – TWIN PROPELLER MOTOR YACHT  
LAUNCH DATE –

CLASSIFICATION – RINA C  $\boxtimes$  HULL • MACH Y<sub>CH</sub>; UNRESTRICTED NAVIGATION, DMS, EFP, MCA COMPLAINT

SHIPYARD – MURAL YACHTS

NAVAL ARCHITECTURE – MURAL YACHTS

EXTERIOR DESIGN – MURAL YACHTS

INTERIOR DESIGN – MURAL YACHTS

LOA – 46.326, (151.99`)

LH – 46.300, (151.90`)

LWL – 44.641M, (1146.46`)

BMAX – 8.95M, (29.36`)

DRAFT – 2.55M, (8.37`)

DEPTH – 4.70M, (15.42`)

DISPLACEMENT (HALF LOAD) – 413.7MT

SPEED (MAX/CRUISING) – 16/12KTS

RANGE – 4700 NM @ 12KTS (APPROXIMATE)

NUMBER OF GUESTS -12

NUMBER OF CREW – 7

## 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 – 56000LTR (APPROXIMATE), 7 TANKS

LUBE OIL TANK – 782LTR (APPROXIMATE) 1 TANK

SLUDGE TANK – 1023LTR (APPROXIMATE) 1 TANK

FRESH WATER TANKS – 14810LTR (APPROXIMATE) 3 TANKS

GREY WATER TANKS – 12800LTR (APPROXIMATE) 2 TANKS

BLACK WATER TANKS – 11687LTR (APPROXIMATE) 2 TANKS

### DECK EQUIPMENT:

WINDLASS – 2 X LOFRANS ERCOLE VERTICAL 5500W

ANCHOR – 2 X 275KG HHP, POOL N ANCHOR



CHAIN - 17.5MM STUDLINK, 220M + 220M  
CAPSTAN - 2 X LOFRANS T4000, 5000W (AT STERN)  
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 3382.5 (5 STEPS) 420KG CAPACITY  
SIDE BOARDING LADDERS - 2 X SANGUINETI CHIAVARI KING MODEL 8 STEP  
PANTOGRAPH DOOR - BOFOR CUSTOM  
SLIDING SALON DOOR - 2 X CHROME/GLASS AUTOMATIC DOOR WITH BRAKE

## **MACHINERY:**

### **PROPULSION SYSTEM:**

ENGINES - CUMMINS KTA38-M2 1200BHP @ 1800 RPM  
GEARBOX - ZF W3355 (4:1) WITH TROLLING VALVE & TRAILNG PUMP  
GAS THROTTLE - ZF SMART COMMAND 3 STATIONS (WHEELHOUSE + 2 WING STATIONS)  
FLEXIBLE COUPLING - RUBBER DESIGN RD210GA  
THRUST BEARING - RUBBER DESIGN SLB4A00  
PROPELLER SHAFT - AQUAMET, 120MM DIAMETER  
SHAFT SEAL - ELICHE RADICE  
STERNTUBE - STEEL OD 244MM  
SHAFT BEARINGS - NITRILE RUBBER BEARINGS  
SHAFT BRACKETS - STEEL V-BRACKET  
PROPELLERS - NIBRAL FIXED PITCH 63" DIAMETER SIP MARINE  
EXHAUST TYPE - WET EXHAUST WITH BYPASS SYSTEM MES  
EXHAUST HOSES - TRIDENT OR SCAMO  
SILENCERS - MES

### **STEERING:**

STEERING SYSTEM - MARSILI ELECTRO-HYDRAULIC SYSTEM  
RUDDER - 2 X STEEL SEMI SPADE RUDDERS  
BOW THRUSTER - TRAC 24", 125HP HYDRAULIC SYSTEM  
STABILIZER - TRAC 370=16X ZERO SPEED (4 WINGLETS)  
ELECTRIC MOTOR - 2 X 20HP AC MOTORS

### **FUEL SYSTEM:**

FUEL TRANSFER - GIANNESCHI ACB 331/B B 1.5KW  
FUEL FILTER - SEPAR OR RACOR (FOR ENGINES AND GENSETS)  
PIPING/VALVE MATERIAL - 304 STAINLESS STEEL  
VALVES - ELECTRONIC VALVES IN TRANSFER SYSTEM  
FUEL FILTRATION - ALFA LAVAL MIB 303

### **LUBE OIL SYSTEM:**

LUBE OIL PUMP - GIANNESCHI FQ15 0.37KW, 380V

### **SLUDGE SYSTEM:**

TRANSFER PUMP - GIANNESCHI FQ15 0.37kW, 380V

### **FRESH WATER SYSTEM:**

HYDROPHORE - GIANNESCHI JET 2 518B EL 24V+380V 1.1+1.1KW  
WATER MAKER - 2 X SEA RECOVERY AQUA WHISPER 1800-2 380V  
BOILER - 2 X GIANNESCHI 200LTR 3+3KW 380V



HOT WATER CIRCULATION PUMP – GIANNESCHI Z30TOP 0.18kW, 380V  
PIPING/VALVE MATERIAL – PPP-R

#### **DIRTY WATER SYSTEM:**

MACERATOR PUMPS – GIANNESCHI MV180 1.5kW, 380V  
TANK WASH PUMP – GIANNESCHI AOB331B 1.5kW, 380V  
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 PRIVILEGE, SOFT CLOSE, 230V 0.7KW  
PIPING/VALVE MATERIAL - PVC

#### **BILGE/FIRE SYSTEM:**

BILGE PUMP – GIANNESCHI AOB631/B 9.2kW, 380V  
FIRE PUMP – GIANNESCHI M-AOB531 9KW DIESEL PUMP  
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 – 304 STAINLESS STEEL

#### **DECK WASH SYSTEM:**

PUMP – GIANNESCHI IDRO ECOJET 2 0.37kW, 380V

#### **FIXED FIRE FIGHTING SYSTEM:**

SYSTEM TYPE – ULTRAFOG

#### **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  
DRESSING ROOM – AT18HVZ, 18000BTU/HR, 1A  
GALLEY – AT24HVZ, 24000BTU/HR, 1A  
MAIN SALOON – 4 X AT24HVZ, 96000BTU/HR, 4A  
WHEELHOUSE – 2 X AT18HVZ, 18000BTU/HR, 2A  
CORRIDOR – AT12HVZ, 12000BTU/HR, 0.7A  
UPPER SALOON – 3 X AT24HVZ, 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 P711 380V  
CIRCULATION PUMP – P715 3HP  
DIGITAL CONTROLLER KIT – 23 X PLTX-HVSTAT  
ER FANS – 1 X GIANNESCHI ELL/AP 805, 1 X GIANNESCHI ELL/AP715 -380V WITH  
24V FIRE DAMPER AND MIST ELIMINATOR  
LAZARETTE FANS – 1 X FEIT FV250-380V WITH 24V FIRE DAMPER AND MIST  
ELIMINATOR

### **ELECTRICAL SYSTEMS:**

ONBOARD ELECTRICITY – 380V, 230V, 24V, 12V  
GENERATORS – 2 X KOHLER, 80KW @ 1500RPM 3 PHASE  
NIGHT GENERATOR – 1 X KOHLER, 55KW @ 1500RPM 3 PHASE

ALL GENERATORS WILL BE SET UP SO THAT THEY ARE ABLE TO WORK  
SYNCHRONOUSLY. THERE WILL BE NO CUT OFF IN POWER DURING SHIFT FROM  
GENERATOR TO GENERATOR OR WHEN TRANSITIONING FROM SHORE POWER TO  
GENERATOR POWER. 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 – CUSTOM  
FREQUENCY CONVERTOR – ATLAS 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 NGR333  
OVERHEAD MAGNETIC COMPASS – CASSEN & PLATH TYPE 21  
GYRO COMPASS – SIMRADGC80 EXP  
GYRO REPEATER ANALOGUE – SIMRAD HR80  
GYRO REPEATER DIGITAL – SIMRAD DR76  
CCTV SYSTEM CAMERAS – 4 X NAVICO MINI CAMERA WITH IR  
CCTV SWITCH – DAYLINE DL104  
CCTV VIDEO BUFFER – DAYLINE SL-18AV  
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  
CONTROL OF HAMANN SEWAGE TREATMENT SYSTEM  
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  
CONTROL OF HAMANN SEWAGE TREATMENT SYSTEM  
ALARMS TO BE LOGGED IN THE SYSTEM

### **1-5 NAVIGATION/EXTERIOR LIGHTS MONITORING & CONTROL;**

NAVIGATION LIGHTS CONTROL FROM AUTOMATION PANELS  
NON FUNCTIONING NAVIGATION LIGHTS TO BE SHOWN ON DISPLAY  
UNDERWATER LIGHTS TO BE CONTROLLED VIA AUTOMATION SYSTEM  
DECK COURTESY LIGHTS TO BE MONITORED VIA AUTOMATION SYSTEM  
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 ENGINE ROOM VENTILATION FAN CONTROL;**

ENGINE ROOM FAN SWITCH ON & OFF FROM AUTOMATION PANEL  
FAN SPEED CONTROL  
FIRE DAMPER CONTROL

**1-9 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

**1-10 AG 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

**1-11 ALARM STORAGE & ENGINEERING PAGE;**

ALL ALARM WARNINGS TO BE STORED FOR FUTURE RETRIEVAL

**1-12 PORTHOLE AND WATERTIGHT DOOR MONITORING;**

18 PORTHOLES WITH MICRO SWITCH TO BE MONITORED OPEN/CLOSED POSITION  
3 WATERTIGHT DOORS TO BE MONITORED OPEN/CLOSED POSITION

**1-13 MAIN ENGINES;**

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

**1-14 AIR CONDITIONING CIRCULATION WATER MONITORING;**

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

**1-15 MAIN ENGINES AND GENERATOR RAW WATER COOLING SYSTEM MONITORING;**

SEA WATER FLOW MONITORING  
LOW FLOW RATE ALARM  
ALARMS TO BE LOGGED IN SYSTEM



AUTOMATION PANELS TO BE PLACED IN WHEELHOUSE (19"), CAPTAINS CABIN (12"), ENGINEERS CABIN (12"), ENGINE ROOM ON PLC PANEL (15" OR 19")

#### **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)  
MAIN SALOON – 65" (FIXED)  
UPPER SALOON – 55" (FIXED)  
SUN DECK – 55" (CEILING LIFT)

DECODERS – 9 X NEXT HD SATELLITE RECEIVER  
IPOD DOCKS – 2 X MODE BASE IPOD DOCKS IN SALON  
1 IPOD DOCK IN EACH CABIN

DVD – ALL TV'S TO BE CONNECTED TO DVD PLAYER (BLUE RAY)

SPEAKERS:

INTERIORS – SPEAKERCRAFT OR SIMILAR  
EXTERIORS – BOSE

#### **INTERIORS:**

FLOORS – TEAK PARQUE, COVERED IN TEAK OIL & CARPET  
CEILINGS – WHITE LACQUER  
WALLS – VENEER VARNISH, LACQUER AND FABRIC  
FURNITURE – VENEER & LACQUER  
TRIM – TEAK OR SIMILAR  
BATHROOM COUNTERS – GRANITE BELENCO OR CORIAN  
BATHROOM SHOWERS – CORIAN  
LIGHTING – BCM LED LIGHTING 230V  
FRIDGE – 3 X SIEMENS KD75NA10NE  
DEEP FREEZE – 2 X SIEMENS GS29NVW30  
MICROWAVE – SIEMENS HF25M5L2  
OVEN – 2 X SIEMENS HB933R52  
STOVE – 2 X SIEMENS EH975SZ17E  
ELECTRIC GRILL – 4 X ET375BU11E  
ASPIRATOR – 2 X SIEMENS LB75564  
DISHWASHER – 2 X SIEMENS SN56V594TR  
WASHING MACHINE – 2 X SIEMENS WM12Y840TR  
DRYER – 2 X SIEMENS WT48Y740TR

#### **TENDER & SPORTS EQUIPMENT:**

TENDER – 1 X 5.2M NORTHSTAR 90HP OUTBOARD  
SUN DECK CRANE – SANGUINETI CHIAVARI 1500KG CAPACITY

#### **PAINT SYSTEM:**

HULL – INTERNATIONAL PERFECTION SYSTEM  
SUPERSTRUCTURE – INTERNATIONAL PERFECTION SYSTEM  
ANTI FOULING – INTERNATIONAL MICRON 77