

**ENGINE PARTICULAR**  
**"BAHTERA SEVA 2"**

| NO. | ITEM                       | SPECIFICATION                                     |                           | LOCATION    |
|-----|----------------------------|---------------------------------------------------|---------------------------|-------------|
| 1   | <b>MAIN ENGINE</b>         | <b>PORT</b>                                       | <b>STBD</b>               |             |
|     | Merk                       | Mitsubishi                                        | Mitsubishi                | ENGINE ROOM |
|     | Type / Model               | S6R-T2MPTK-67492                                  | S6R-T2MPTK-67493          |             |
|     | Rated Output               | 605 kw                                            | 605 kw                    |             |
|     | Rpm                        | 1800                                              | 1800                      |             |
|     | Engine Identification      |                                                   |                           |             |
|     | Date Manufacture           | 10.2013                                           | 10.2013                   |             |
|     | Serial No.                 | 67492                                             | 67493                     |             |
|     | Body Marked                | Mitsubishi heavy industries.LTD Sagami-hara Japan |                           |             |
|     |                            |                                                   |                           |             |
|     | <b>GEAR BOX</b>            | <b>PORT</b>                                       | <b>STBD</b>               | ENGINE ROOM |
|     | Merk                       | MARINE TRANSMISION                                |                           |             |
|     | Type / Model               | DMT 400H                                          | DMT 400H                  |             |
|     | Serial No.                 | DT.1671764 G                                      | DT.1671764 G              |             |
|     | Ratio                      | 2.03 : 1                                          | 2.03 : 1                  |             |
|     | Clutch                     | 20 ~ 27 kg/cm                                     | 20 ~ 27 kg/cm             |             |
|     | Lube                       | 1.5 ~ 4.0 kg/cm                                   | 1.5 ~ 4.0 kg/cm           |             |
|     | Oil Viscosity              | SAE 30 H.D                                        | SAE 30 H.D                |             |
|     |                            |                                                   |                           |             |
| 2   | <b>AUXILIARY ENGINE</b>    | <b>PORT</b>                                       | <b>STBD</b>               |             |
|     | Merk                       | Perkins                                           | Perkins                   |             |
|     | Serial No.                 | RG30879U623069A                                   | RG30879U623070A           |             |
|     | Type                       | 4.4 TGM                                           | 4.4 TGM                   |             |
|     | Rated Power                | 56.4 Kw                                           | 56.4 Kw                   |             |
|     |                            |                                                   |                           |             |
|     | <b>ALTERNATOR</b>          | <b>PORT</b>                                       | <b>STBD</b>               |             |
|     | Merk                       | Power Drive Marine Genset                         | Power Drive Marine Genset |             |
|     | Type / Model               | ECP32-3L4                                         | ECP32-3L4                 |             |
|     | Phase                      | 3                                                 | 3                         |             |
|     | RPM                        | 1500                                              | 1500                      |             |
|     | Ex Work Date               | Jan-16                                            | Jan-16                    |             |
|     | Frequency                  | 50 Hz                                             | 50 Hz                     |             |
|     | Power Factor               | 0,8                                               | 0,8                       |             |
|     | Power                      | 63 KVA                                            | 63 KVA                    |             |
|     | Voltage                    | 380/3/50                                          | 380/3/50                  |             |
|     | Current                    | 330/191/165/96 A                                  | 330/191/165/96 A          |             |
|     | Unit Mass                  | SI                                                | SI                        |             |
|     | Serial No.                 | 1887795                                           | 1887795                   |             |
|     |                            |                                                   |                           |             |
|     | <b>OIL WATER SEPARATOR</b> |                                                   |                           |             |
|     | Type/ Series               | HRS                                               |                           |             |
|     | Serial No.                 | 39077                                             |                           |             |
|     | Capacity                   | 0.25 M3/hr                                        |                           |             |
|     | Years                      | 2016                                              |                           |             |
|     | Manufactur                 | PROTONO DWI DINAMIKA                              |                           |             |
|     | Type Approval              | 694/1/6/DLL-1995                                  |                           |             |
|     |                            |                                                   |                           |             |
|     | <b>ELECTROMOTOR</b>        |                                                   |                           |             |
|     | Merk                       | Transmax                                          |                           |             |
|     | Iso                        | 9001                                              |                           |             |
|     | Serial No.                 | 1209010464                                        |                           |             |
|     | Type                       | TAL 71B-4                                         |                           |             |
|     | Volt                       | 220-240                                           |                           |             |
|     | Frequensi                  | 50 Hz                                             |                           |             |
|     | Rpm                        | 1380                                              |                           |             |
|     | Power                      | 0.37 kw / 0.5 HP                                  |                           |             |
|     |                            |                                                   |                           |             |
| 4   | <b>FRESH WATER PUMP</b>    |                                                   |                           |             |
|     | Type / Model               |                                                   | SHIMIZU PC-268 BIT        | ENGINE ROOM |
|     | Serial No.                 |                                                   | DHT310917                 |             |
|     | Volt                       |                                                   | 220 V                     |             |

|   |                                         |                         |             |
|---|-----------------------------------------|-------------------------|-------------|
|   | Freq                                    | 50 Hz                   |             |
|   | Pressure Switch On                      | 1.4 kgf/cm <sup>2</sup> |             |
|   | Pressure Switch Of                      | 2.8 kgf/cm <sup>2</sup> |             |
|   | Temperature Air                         | Maks. 40 C              |             |
| 5 | <b>SEA WATER PUMP</b>                   |                         |             |
|   | Type / Model                            | CP40/160                | ENGINE ROOM |
|   | Capacity                                | 4,8 M <sup>3</sup> /H   |             |
|   | Rev.                                    |                         |             |
|   | Head                                    | 30 MH                   |             |
|   | Date                                    |                         |             |
|   | Bearing                                 |                         |             |
|   | Serial No.                              | 454801                  |             |
|   | <b>Electromotor</b>                     |                         | ENGINE ROOM |
|   | Merk                                    | Bombas Azcue W21        |             |
|   | Type / Model                            | 3-AL90S/L-02            |             |
|   | Freq.                                   | 50 Hz                   |             |
|   | Voltage                                 | 220 V                   |             |
|   | Power                                   | 2,2 Kw                  |             |
|   | Bearing DE                              | 6205-ZZ                 |             |
|   | Bearing NDE                             | 6204-ZZ                 |             |
|   | Serial No.                              | 1031087446              |             |
| 6 | <b>GENERAL SERVICE PUMP / FIRE PUMP</b> |                         |             |
|   | Merk                                    | Azcue                   | ENGINE ROOM |
|   | Type / Model                            | CA80/10-A               |             |
|   | Capacity                                | 30 M <sup>3</sup> /H    |             |
|   | Rev.                                    |                         |             |
|   | Head                                    | 35 MH                   |             |
|   | Date                                    | 2016                    |             |
|   | Bearing                                 |                         |             |
|   | Serial No.                              | 450713                  |             |
|   | <b>Electromotor</b>                     |                         | ENGINE ROOM |
|   | Merk                                    | Bombas Azcue W21        |             |
|   | Type / Model                            | 3-AL 32S-02             |             |
|   | Freq.                                   | 50 Hz                   |             |
|   | Voltage                                 | 380 V                   |             |
|   | Power /Rpm                              |                         |             |
|   | Serial No.                              | 101605 100              |             |
| 7 | <b>BILGE PUMP/BALLAST PUMP</b>          |                         |             |
|   | Merk                                    | Azcue                   | ENGINE ROOM |
|   | Type / Model                            | CA50/7A                 |             |
|   | Capacity                                | 25 M <sup>3</sup> /H    |             |
|   | Rev.                                    |                         |             |
|   | Head                                    | 30 MH                   |             |
|   | Date                                    | 2016                    |             |
|   | Bearing                                 |                         |             |
|   | Serial No.                              |                         |             |
|   | <b>Electromotor</b>                     |                         | ENGINE ROOM |
|   | Merk                                    | Bombas Azcue W21        |             |
|   | Type / Model                            | 3-AL 132S-02            |             |
|   | Freq.                                   | 50 Hz                   |             |
|   | Voltage                                 | 380 V                   |             |
|   | Power /Rpm                              |                         |             |
|   | Serial No.                              | 1026133605              |             |
| 8 | <b>FUEL OIL TRANSFER PUMP</b>           |                         |             |
|   | Merk                                    | Azcue                   | ENGINE ROOM |
|   | Type / Model                            | 2YE                     |             |
|   | Capacity                                |                         |             |
|   | Year                                    | 2013                    |             |
|   | Head                                    |                         |             |
|   | Serial No.                              | 411259                  |             |

|           |                                         |                          |                          |
|-----------|-----------------------------------------|--------------------------|--------------------------|
|           | <b>Electromotor</b>                     |                          | <b>ENGINE ROOM</b>       |
|           | Merk                                    | Bombas Azcue W21         |                          |
|           | Type / Model                            | 3-AL 90S-02              |                          |
|           | Freq.                                   | 50 Hz                    |                          |
|           | Voltage                                 | 220 V                    |                          |
|           | Power /Rpm                              | 1420                     |                          |
|           | Serial No.                              |                          |                          |
| <b>9</b>  | <b>SEWAGE PUMP</b>                      |                          |                          |
|           | Merk                                    | Pumpenfabrik Wangen      | <b>ENGINE ROOM</b>       |
|           | Type / Model                            | ESP D88329               |                          |
|           | Capacity                                | 3 M <sup>3</sup> /H      |                          |
|           | Rev.                                    |                          |                          |
|           | Head                                    | 10 MH                    |                          |
|           | Date                                    | 2016                     |                          |
|           | Serial No.                              | 943955                   |                          |
|           | <b>Electromotor</b>                     |                          | <b>ENGINE ROOM</b>       |
|           | Merk                                    | SEW-EURODRIVE            |                          |
|           | Type / Model                            | R27F DRE90M4/TF          |                          |
|           | Freq.                                   | 50 Hz                    |                          |
|           | Voltage                                 | 220 V                    |                          |
|           | Power /Rpm                              | 1420                     |                          |
|           | Serial No.                              | 01.7324101201.0002.16    |                          |
| <b>10</b> | <b>MAIN SWITCH BOARD</b>                |                          |                          |
|           | Maker                                   | Schneider                | <b>ENGINE ROOM</b>       |
|           | Capacity                                |                          |                          |
|           | Current                                 |                          |                          |
|           | Voltage                                 | 380 V                    |                          |
|           | Frequency                               | 50/60 Hz                 |                          |
|           | Date                                    |                          |                          |
|           | Class                                   |                          |                          |
|           | Serial No.                              | LE1M35Q708               |                          |
| <b>11</b> | <b>ELECTRIC HYDRAULIC STEERING GEAR</b> |                          |                          |
| <b>a</b>  | <b>Emergency Rudder</b>                 |                          | <b>STEERING ROOM</b>     |
|           | Manufacture                             | Oceanic Marine PTE. LTD. |                          |
|           | Model                                   | OMEH 1500/2P             |                          |
|           | Serial No.                              | OC0276/16                |                          |
| <b>b</b>  | <b>Electric Hydraulic Powerpack</b>     |                          | <b>STEERING ROOM</b>     |
|           | Merk                                    | Retroth                  |                          |
|           | Manufacture                             | Germany                  |                          |
|           | Max. Pressure                           | 350 Bar                  |                          |
|           | Deliver                                 |                          |                          |
|           | Rev.                                    |                          |                          |
|           | Serial No.                              | 4WE6 H62/EG24N9K4        |                          |
| <b>c</b>  | <b>Electro Motor Winch</b>              |                          | <b>STEERING ROOM</b>     |
|           | Merk                                    | Techtop                  |                          |
|           | Type                                    | TIA 100LB-4 (B5)         |                          |
|           | Power                                   | 3,0 Kw                   |                          |
|           | Rev.                                    |                          |                          |
|           | Serial No.                              | 15105203TA               |                          |
| <b>12</b> | <b>EMERGENCY GENERATOR</b>              |                          |                          |
|           | Merk                                    | YAMAGEN                  | <b>BELAKANG ANJUNGAN</b> |
|           | Type                                    | 3TNM72-GGE               |                          |
|           | Serial No.                              | 61191                    |                          |
|           | Alternator                              | PI 044FI                 |                          |
|           | Alternator Serial No.                   | X16A044013               |                          |
|           | Rpm                                     | 1500                     |                          |
|           | Power Rating                            | 6,4 Kw                   |                          |
|           | Voltage                                 | 380/220 V                |                          |
|           | Frequency                               | 50 Hz                    |                          |

|    |                               |                               |                   |
|----|-------------------------------|-------------------------------|-------------------|
| 13 | Phase                         | 3                             |                   |
|    | Generator Model               | YTG10TLM                      |                   |
|    | Generator S/NO.               | Y5.506160142                  |                   |
|    |                               |                               |                   |
|    | <b>WINDLASS GEARBOX</b>       |                               |                   |
|    | Merk                          | Oceanic Marine PTE.LTD.       | HALUAN            |
|    | Type                          | HY AWDC16M                    |                   |
|    | Chain Size/ Capacity          | 16MM U2 / 1,6 Tons            |                   |
|    | Ratio                         |                               |                   |
|    | Mfg. No.                      | OM AWDC160233-16              |                   |
|    | Power Pack                    | 7.5 HP                        |                   |
|    | Rated Speed                   | 12 Meter/min                  |                   |
|    | Serial No.                    | OM AWD C16 0233-16            |                   |
| 14 | Classification                | BV 00219 KLP16                |                   |
|    | Date Manufacture              | 13-09-16                      |                   |
|    |                               |                               |                   |
|    | <b>ENGINE BLOWER FAN</b>      |                               |                   |
|    | Type                          | 500/10/14DEG                  | BELAKANG ANJUNGAN |
|    | Manufacture                   | SAE Marine Offshore PTE. LTD. |                   |
|    | Size                          | 10000CMH                      |                   |
|    | Power                         | 4 Kw                          |                   |
|    | Phase                         | 3                             |                   |
|    | Voltage                       | 440 V / 60 Hz                 |                   |
| 15 | Rpm                           | 3480                          |                   |
|    | Type                          | AXIAL                         |                   |
|    |                               |                               |                   |
|    | <b>AIR HANDLING UNIT PUMP</b> |                               |                   |
|    | Type / Model                  | CP40/160                      | ENGINE ROOM       |
|    | Capacity                      | 4,8 M3/H                      |                   |
|    | Rev.                          |                               |                   |
|    | Head                          | 30 MH                         |                   |
|    | Date                          |                               |                   |
|    | Bearing                       |                               |                   |
|    | Serial No.                    | 454702                        |                   |
|    |                               |                               |                   |
|    | <b>Electromotor</b>           |                               | ENGINE ROOM       |
|    | Merk                          | Bombas Azcue W21              |                   |
|    | Type / Model                  | 3-AL90S/L-02                  |                   |
|    | Freq.                         | 50 Hz                         |                   |
|    | Voltage                       | 220 V                         |                   |
|    | Power                         | 2,2 Kw                        |                   |
|    | Bearing DE                    | 6205-ZZ                       |                   |
|    | Bearing NDE                   | 6204-ZZ                       |                   |
|    | Serial No.                    | 1031086335                    |                   |